

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Pleasanton

1220 Quarry Lane

Pleasanton, CA 94566

Tel: (925)484-1919

TestAmerica Job ID: 720-60070-1

Client Project/Site: WPCP San Leandro

Revision: 1

For:

City of San Leandro

3000 Davis Street

San Leandro, California 94577

Attn: Shahed Abbasi

A handwritten signature in black ink that reads "Micah R J Smith".

Authorized for release by:

10/16/2014 4:06:15 PM

Micah Smith, Project Manager II

(925)484-1919

micah.smith@testamericainc.com

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	5
Detection Summary	7
Client Sample Results	8
Isotope Dilution Summary	16
QC Sample Results	18
QC Association Summary	45
Lab Chronicle	51
Certification Summary	53
Method Summary	57
Sample Summary	58
Subcontract Data	59
Chain of Custody	62
Receipt Checklists	64

Definitions/Glossary

Client: City of San Leandro
Project/Site: WPCP San Leandro

TestAmerica Job ID: 720-60070-1

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	ISTD response or retention time outside acceptable limits
*	LCS or LCSD exceeds the control limits
F1	MS and/or MSD Recovery exceeds the control limits
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
E	Result exceeded calibration range.
F2	MS/MSD RPD exceeds control limits

GC/MS Semi VOA

Qualifier	Qualifier Description
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.
X	Surrogate is outside control limits
*	ISTD response or retention time outside acceptable limits

GC Semi VOA

Qualifier	Qualifier Description
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.
X	Surrogate is outside control limits
*	LCS or LCSD exceeds the control limits
D	Sample results are obtained from a dilution; the surrogate or matrix spike recoveries reported are calculated from diluted samples.
E	Result exceeded calibration range.

Dioxin

Qualifier	Qualifier Description
q	The reported result is the estimated maximum possible concentration of this analyte, quantitated using the theoretical ion ratio. The measured ion ratio does not meet qualitative identification criteria and indicates a possible interference.
G	The reported quantitation limit has been raised due to an exhibited elevated noise or matrix interference

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.

General Chemistry

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
%	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated

TestAmerica Pleasanton

Definitions/Glossary

Client: City of San Leandro
Project/Site: WPCP San Leandro

TestAmerica Job ID: 720-60070-1

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

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3
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9
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11
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16

Case Narrative

Client: City of San Leandro
Project/Site: WPCP San Leandro

TestAmerica Job ID: 720-60070-1

Job ID: 720-60070-1

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative 720-60070-1

Comments

This report was revised to report all samples on a wet weight basis. Also revised to report he 8081A data as estimated values to the MDL.

Receipt

The sample was received on 9/22/2014 3:45 PM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 0.2° C.

Except:

Received in a clear glass jar, put in a box to keep the dioxin sample dark. The EPA 608 logged as 8081A because these are soil samples.

GC/MS VOA

Method(s) 8260B: Internal standard (ISTD) response for the following sample was outside control limits: (720-60070-1 MS), (720-60070-1 MSD), SLUDGE BED #12 WEST (720-60070-1). The Internal standard (ISTD) response failure was due to the sample matrix as confirmed by the MS/MSD.

Method(s) 8260B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for batch 167762 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method(s) 8260B: The following analytes recovered outside control limits for the LCS associated with batch 167762: 1,1-DCE and Toluene. This is not indicative of a systematic control problem because these were random marginal exceedances. Qualified results have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA

Method(s) 8270C: The following sample(s) was diluted due to the abundance of non-target analytes: SLUDGE BED #12 WEST (720-60070-1). Elevated reporting limits (RLs) are provided.

Method(s) 8270C: Internal standard responses were outside of acceptance limits for the following sample(s): SLUDGE BED #12 WEST (720-60070-1). The sample(s) shows evidence of matrix interference.

Method(s) 8270C: The following sample(s) required a dilution due to the nature of the sample matrix: SLUDGE BED #12 WEST (720-60070-1). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC VOA

Method(s) 8151A: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for batch 119598 recovered outside control limits for the following analytes: Pentachlorophenol. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA

Method(s) 8081A: The following samples in prep batch 244923 and analytical batch 245758 were diluted for method 8081 due to the nature of the sample matrix: (720-60070-1), SLUDGE BED #12 WEST (720-60070-1). Elevated reporting limits (RLs) are provided. The samples had numerous non-target peaks and significant baseline rise that could be interfering with the identification and quantitation of target analytes. This inference could cause false positive and/or negative results. The samples were very dark in color.

Case Narrative

Client: City of San Leandro
Project/Site: WPCP San Leandro

TestAmerica Job ID: 720-60070-1

Job ID: 720-60070-1 (Continued)

Laboratory: TestAmerica Pleasanton (Continued)

Method(s) 8082: The following samples required a tetrabutylammonium sulfite (TBA) clean-up to reduce matrix interferences caused by sulfur: SLUDGE BED #12 WEST (720-60070-1), (LCS 720-167879/2-A), (LCSD 720-167879/3-A), (MB 720-167879/1-A).

Method(s) 8082: The following sample was diluted due to the abundance of non-target analytes: SLUDGE BED #12 WEST (720-60070-1). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Dioxin

Method(s) 1613B: The following sample exhibited elevated noise or matrix interferences for one or more analytes requiring the detection limits (EDL) to be raised above the reporting limit (RL): (720-60070-1), SLUDGE BED #12 WEST (720-60070-1). These analytes were flagged with the "G" qualifier.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

Method(s) 6010B: The method blank for prep batch 168451 contained Na above the reporting limit (RL). Associated sample(s) were not re-extracted and/or re-analyzed because results were greater than 10X the value found in the method blank.

Method(s) 7471A: The following sample(s) was diluted due to the nature of the sample matrix: SLUDGE BED #12 WEST (720-60070-1). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry

Method(s) 7196A: The following sample(s) for hexavalent chromium were diluted due to the dark brown/gold color of the sample matrix : (720-60070-1), SLUDGE BED #12 WEST (720-60070-1). Elevated reporting limits (RL) are provided.

Method(s) 351.2: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 208652 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits. (720-60070-1 MS), (720-60070-1 MSD)

Method(s) SM 2510B: The procedure for Specific Conductance by method 9050B is applicable to liquid samples and has been modified to provide the enclosed results for the following soil sample: (720-60070-1), SLUDGE BED #12 WEST (720-60070-1). The modification involves a DI leach of the soil followed by electrometric measurement of the leachate. The values provided are a measure of the leachable component's conductance for a given mass to volume of water, in this case 10 grams to 100 mL, rather than the conductance of the soil itself.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep

Method(s) 8151A: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with batch 119598.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Dioxin Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Subcontract Work

Method PLM - Asbestos: This method was subcontracted to EMLab P&K. The subcontract laboratory certification is different from that of the facility issuing the final report.

Method Carbon Dioxide Evolution: This method was subcontracted to SOIL CONTROL LAB. The subcontract laboratory certification is different from that of the facility issuing the final report.

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Detection Summary

Client: City of San Leandro
Project/Site: WPCP San Leandro

TestAmerica Job ID: 720-60070-1

Client Sample ID: SLUDGE BED #12 WEST

Lab Sample ID: 720-60070-1

Analyte	Result	Qualifier	NONE	NONE	Unit	Dil Fac	D	Method	Prep Type
Sodium Adsorption Ratio	1.2			NONE		1	20B		Soluble
Analyte	Result	Qualifier	RL	EDL	Unit	Dil Fac	D	Method	Prep Type
1,2,3,6,7,8-HxCDD	9.4		5.0		pg/g	1	1613B		Total/NA
1,2,3,4,6,7,8-HpCDD	360		5.0		pg/g	1	1613B		Total/NA
1,2,3,4,6,7,8-HpCDF	35 q		5.0		pg/g	1	1613B		Total/NA
OCDD	2600		10		pg/g	1	1613B		Total/NA
OCDF	92		10		pg/g	1	1613B		Total/NA
Total TCDD	13 q		1.0		pg/g	1	1613B		Total/NA
Total TCDF	27		1.0		pg/g	1	1613B		Total/NA
Total PeCDD	69 G q		7.9		pg/g	1	1613B		Total/NA
Total PeCDF	12		5.0		pg/g	1	1613B		Total/NA
Total HxCDD	72		5.0		pg/g	1	1613B		Total/NA
Total HxCDF	25		5.0		pg/g	1	1613B		Total/NA
Total HpCDD	570		5.0		pg/g	1	1613B		Total/NA
Total HpCDF	76 q		5.0		pg/g	1	1613B		Total/NA
2,3,7,8-TCDF - RA	2.3 G		1.3		pg/g	1	1613B		Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	1000 *		49		ug/Kg	1	8260B		Total/NA
2-Butanone (MEK)	130 *		49		ug/Kg	1	8260B		Total/NA
MCPA	15000		8000		ug/Kg	20	8151A		Total/NA
MCPP	8600 p		8000		ug/Kg	20	8151A		Total/NA
Antimony	1.9		0.41		mg/Kg	1	6010B		Total/NA
Arsenic	4.4		0.81		mg/Kg	1	6010B		Total/NA
Barium	230		0.41		mg/Kg	1	6010B		Total/NA
Beryllium	0.093		0.081		mg/Kg	1	6010B		Total/NA
Cadmium	1.5		0.10		mg/Kg	1	6010B		Total/NA
Chromium	54		0.41		mg/Kg	1	6010B		Total/NA
Cobalt	8.0		0.16		mg/Kg	1	6010B		Total/NA
Copper	340		1.2		mg/Kg	1	6010B		Total/NA
Lead	33		0.41		mg/Kg	1	6010B		Total/NA
Molybdenum	14		0.41		mg/Kg	1	6010B		Total/NA
Nickel	35		0.41		mg/Kg	1	6010B		Total/NA
Selenium	4.7		0.81		mg/Kg	1	6010B		Total/NA
Silver	4.9		0.20		mg/Kg	1	6010B		Total/NA
Vanadium	19		0.41		mg/Kg	1	6010B		Total/NA
Zinc	770		1.2		mg/Kg	1	6010B		Total/NA
Sodium	1300 B		4.1		mg/Kg	1	6010B		Total/NA
Calcium	29000		16		mg/Kg	4	6010B		Total/NA
Boron	20		0.81		mg/Kg	1	6010B		Total/NA
Total Kjeldahl Nitrogen	37000		9800		mg/Kg	10	351.2		Total/NA
Phenols, Total	1.1		0.98		mg/Kg	1	420.1		Total/NA
Cyanide, Total	6.4		0.49		mg/Kg	1	SM 4500 CN E		Total/NA
Phosphorus as P	9100		990		mg/Kg	25	SM 4500 P E		Total/NA
Nitrate as N	1200		220		mg/Kg	100	300.0		Soluble
Specific Conductance	31000		1.0		umhos/cm	1	SM 2510B		Soluble
Ammonia (as N)	3800		400		mg/Kg	200	SM 4500 NH3 G		Soluble
Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Nitrogen, Organic	33000		10		mg/Kg	1	Nitrogen,Org		Total/NA
pH	6.79		0.100		SU	1	9045C		Soluble

This Detection Summary does not include radiochemical test results.

TestAmerica Pleasanton

Client Sample Results

Client: City of San Leandro
Project/Site: WPCP San Leandro

TestAmerica Job ID: 720-60070-1

Client Sample ID: SLUDGE BED #12 WEST

Lab Sample ID: 720-60070-1

Date Collected: 09/22/14 10:34

Matrix: Solid

Date Received: 09/22/14 15:45

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Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND *		4.9		ug/Kg		09/27/14 13:39	09/27/14 14:40	1
Acetone	1000 *		49		ug/Kg		09/27/14 13:39	09/27/14 14:40	1
Benzene	ND *		4.9		ug/Kg		09/27/14 13:39	09/27/14 14:40	1
Dichlorobromomethane	ND *		4.9		ug/Kg		09/27/14 13:39	09/27/14 14:40	1
Bromobenzene	ND *		4.9		ug/Kg		09/27/14 13:39	09/27/14 14:40	1
Chlorobromomethane	ND *		20		ug/Kg		09/27/14 13:39	09/27/14 14:40	1
Bromoform	ND *		4.9		ug/Kg		09/27/14 13:39	09/27/14 14:40	1
Bromomethane	ND *		9.9		ug/Kg		09/27/14 13:39	09/27/14 14:40	1
2-Butanone (MEK)	130 *		49		ug/Kg		09/27/14 13:39	09/27/14 14:40	1
n-Butylbenzene	ND *		4.9		ug/Kg		09/27/14 13:39	09/27/14 14:40	1
sec-Butylbenzene	ND *		4.9		ug/Kg		09/27/14 13:39	09/27/14 14:40	1
tert-Butylbenzene	ND *		4.9		ug/Kg		09/27/14 13:39	09/27/14 14:40	1
Carbon disulfide	ND *		4.9		ug/Kg		09/27/14 13:39	09/27/14 14:40	1
Carbon tetrachloride	ND *		4.9		ug/Kg		09/27/14 13:39	09/27/14 14:40	1
Chlorobenzene	ND *		4.9		ug/Kg		09/27/14 13:39	09/27/14 14:40	1
Chloroethane	ND *		9.9		ug/Kg		09/27/14 13:39	09/27/14 14:40	1
Chloroform	ND *		4.9		ug/Kg		09/27/14 13:39	09/27/14 14:40	1
Chloromethane	ND *		9.9		ug/Kg		09/27/14 13:39	09/27/14 14:40	1
2-Chlorotoluene	ND *		4.9		ug/Kg		09/27/14 13:39	09/27/14 14:40	1
4-Chlorotoluene	ND *		4.9		ug/Kg		09/27/14 13:39	09/27/14 14:40	1
Chlorodibromomethane	ND *		4.9		ug/Kg		09/27/14 13:39	09/27/14 14:40	1
1,2-Dichlorobenzene	ND *		4.9		ug/Kg		09/27/14 13:39	09/27/14 14:40	1
1,3-Dichlorobenzene	ND *		4.9		ug/Kg		09/27/14 13:39	09/27/14 14:40	1
1,4-Dichlorobenzene	ND *		4.9		ug/Kg		09/27/14 13:39	09/27/14 14:40	1
1,3-Dichloropropane	ND *		4.9		ug/Kg		09/27/14 13:39	09/27/14 14:40	1
1,1-Dichloropropene	ND *		4.9		ug/Kg		09/27/14 13:39	09/27/14 14:40	1
1,2-Dibromo-3-Chloropropane	ND *		9.9		ug/Kg		09/27/14 13:39	09/27/14 14:40	1
Ethylene Dibromide	ND *		4.9		ug/Kg		09/27/14 13:39	09/27/14 14:40	1
Dibromomethane	ND *		9.9		ug/Kg		09/27/14 13:39	09/27/14 14:40	1
Dichlorodifluoromethane	ND *		9.9		ug/Kg		09/27/14 13:39	09/27/14 14:40	1
1,1-Dichloroethane	ND *		4.9		ug/Kg		09/27/14 13:39	09/27/14 14:40	1
1,2-Dichloroethane	ND *		4.9		ug/Kg		09/27/14 13:39	09/27/14 14:40	1
1,1-Dichloroethene	ND *		4.9		ug/Kg		09/27/14 13:39	09/27/14 14:40	1
cis-1,2-Dichloroethene	ND *		4.9		ug/Kg		09/27/14 13:39	09/27/14 14:40	1
trans-1,2-Dichloroethene	ND *		4.9		ug/Kg		09/27/14 13:39	09/27/14 14:40	1
1,2-Dichloropropane	ND *		4.9		ug/Kg		09/27/14 13:39	09/27/14 14:40	1
cis-1,3-Dichloropropene	ND *		4.9		ug/Kg		09/27/14 13:39	09/27/14 14:40	1
trans-1,3-Dichloropropene	ND *		4.9		ug/Kg		09/27/14 13:39	09/27/14 14:40	1
Ethylbenzene	ND *		4.9		ug/Kg		09/27/14 13:39	09/27/14 14:40	1
Hexachlorobutadiene	ND *		4.9		ug/Kg		09/27/14 13:39	09/27/14 14:40	1
2-Hexanone	ND *		49		ug/Kg		09/27/14 13:39	09/27/14 14:40	1
Isopropylbenzene	ND *		4.9		ug/Kg		09/27/14 13:39	09/27/14 14:40	1
4-Isopropyltoluene	ND *		4.9		ug/Kg		09/27/14 13:39	09/27/14 14:40	1
Methylene Chloride	ND *		9.9		ug/Kg		09/27/14 13:39	09/27/14 14:40	1
4-Methyl-2-pentanone (MIBK)	ND *		49		ug/Kg		09/27/14 13:39	09/27/14 14:40	1
Naphthalene	ND *		9.9		ug/Kg		09/27/14 13:39	09/27/14 14:40	1
N-Propylbenzene	ND *		4.9		ug/Kg		09/27/14 13:39	09/27/14 14:40	1
Styrene	ND *		4.9		ug/Kg		09/27/14 13:39	09/27/14 14:40	1
1,1,1,2-Tetrachloroethane	ND *		4.9		ug/Kg		09/27/14 13:39	09/27/14 14:40	1

TestAmerica Pleasanton

Client Sample Results

Client: City of San Leandro
Project/Site: WPCP San Leandro

TestAmerica Job ID: 720-60070-1

Client Sample ID: SLUDGE BED #12 WEST

Lab Sample ID: 720-60070-1

Date Collected: 09/22/14 10:34

Matrix: Solid

Date Received: 09/22/14 15:45

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Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND	*	4.9		ug/Kg		09/27/14 13:39	09/27/14 14:40	1
Tetrachloroethene	ND	*	4.9		ug/Kg		09/27/14 13:39	09/27/14 14:40	1
Toluene	ND	*	4.9		ug/Kg		09/27/14 13:39	09/27/14 14:40	1
1,2,3-Trichlorobenzene	ND	*	4.9		ug/Kg		09/27/14 13:39	09/27/14 14:40	1
1,2,4-Trichlorobenzene	ND	*	4.9		ug/Kg		09/27/14 13:39	09/27/14 14:40	1
1,1,1-Trichloroethane	ND	*	4.9		ug/Kg		09/27/14 13:39	09/27/14 14:40	1
1,1,2-Trichloroethane	ND	*	4.9		ug/Kg		09/27/14 13:39	09/27/14 14:40	1
Trichloroethene	ND	*	4.9		ug/Kg		09/27/14 13:39	09/27/14 14:40	1
Trichlorofluoromethane	ND	*	4.9		ug/Kg		09/27/14 13:39	09/27/14 14:40	1
1,2,3-Trichloropropane	ND	*	4.9		ug/Kg		09/27/14 13:39	09/27/14 14:40	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	*	4.9		ug/Kg		09/27/14 13:39	09/27/14 14:40	1
1,2,4-Trimethylbenzene	ND	*	4.9		ug/Kg		09/27/14 13:39	09/27/14 14:40	1
1,3,5-Trimethylbenzene	ND	*	4.9		ug/Kg		09/27/14 13:39	09/27/14 14:40	1
Vinyl acetate	ND	*	20		ug/Kg		09/27/14 13:39	09/27/14 14:40	1
Vinyl chloride	ND	*	4.9		ug/Kg		09/27/14 13:39	09/27/14 14:40	1
Xylenes, Total	ND			9.9	ug/Kg		09/27/14 13:39	09/27/14 14:40	1
2,2-Dichloropropane	ND	*	4.9		ug/Kg		09/27/14 13:39	09/27/14 14:40	1
Surrogate		%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene		65	*	45 - 131			09/27/14 13:39	09/27/14 14:40	1
1,2-Dichloroethane-d4 (Surr)		116	*	60 - 140			09/27/14 13:39	09/27/14 14:40	1
Toluene-d8 (Surr)		71	*	58 - 140			09/27/14 13:39	09/27/14 14:40	1

Method: 8270C - Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	ND		6.6		mg/Kg		09/25/14 17:10	10/13/14 15:13	20
Bis(2-chloroethyl)ether	ND		6.6		mg/Kg		09/25/14 17:10	10/13/14 15:13	20
2-Chlorophenol	ND		6.6		mg/Kg		09/25/14 17:10	10/13/14 15:13	20
1,3-Dichlorobenzene	ND		6.6		mg/Kg		09/25/14 17:10	10/13/14 15:13	20
1,4-Dichlorobenzene	ND		6.6		mg/Kg		09/25/14 17:10	10/13/14 15:13	20
Benzyl alcohol	ND		17		mg/Kg		09/25/14 17:10	10/13/14 15:13	20
1,2-Dichlorobenzene	ND		6.6		mg/Kg		09/25/14 17:10	10/13/14 15:13	20
2-Methylphenol	ND		6.6		mg/Kg		09/25/14 17:10	10/13/14 15:13	20
Methylphenol, 3 & 4	ND		6.6		mg/Kg		09/25/14 17:10	10/13/14 15:13	20
N-Nitrosodi-n-propylamine	ND		6.6		mg/Kg		09/25/14 17:10	10/13/14 15:13	20
Hexachloroethane	ND		6.6		mg/Kg		09/25/14 17:10	10/13/14 15:13	20
Nitrobenzene	ND		6.6		mg/Kg		09/25/14 17:10	10/13/14 15:13	20
Isophorone	ND		6.6		mg/Kg		09/25/14 17:10	10/13/14 15:13	20
2-Nitrophenol	ND		6.6		mg/Kg		09/25/14 17:10	10/13/14 15:13	20
2,4-Dimethylphenol	ND		6.6		mg/Kg		09/25/14 17:10	10/13/14 15:13	20
Bis(2-chloroethoxy)methane	ND		17		mg/Kg		09/25/14 17:10	10/13/14 15:13	20
2,4-Dichlorophenol	ND		33		mg/Kg		09/25/14 17:10	10/13/14 15:13	20
1,2,4-Trichlorobenzene	ND		6.6		mg/Kg		09/25/14 17:10	10/13/14 15:13	20
Naphthalene	ND		6.6		mg/Kg		09/25/14 17:10	10/13/14 15:13	20
4-Chloroaniline	ND		17		mg/Kg		09/25/14 17:10	10/13/14 15:13	20
Hexachlorobutadiene	ND		6.6		mg/Kg		09/25/14 17:10	10/13/14 15:13	20
4-Chloro-3-methylphenol	ND		17		mg/Kg		09/25/14 17:10	10/13/14 15:13	20
2-Methylnaphthalene	ND		6.6		mg/Kg		09/25/14 17:10	10/13/14 15:13	20
Hexachlorocyclopentadiene	ND		17		mg/Kg		09/25/14 17:10	10/13/14 15:13	20
2,4,6-Trichlorophenol	ND		17		mg/Kg		09/25/14 17:10	10/13/14 15:13	20

TestAmerica Pleasanton

Client Sample Results

Client: City of San Leandro
Project/Site: WPCP San Leandro

TestAmerica Job ID: 720-60070-1

Client Sample ID: SLUDGE BED #12 WEST

Lab Sample ID: 720-60070-1

Date Collected: 09/22/14 10:34

Matrix: Solid

Date Received: 09/22/14 15:45

Method: 8270C - Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		6.6		mg/Kg		09/25/14 17:10	10/13/14 15:13	20
2-Chloronaphthalene	ND		6.6		mg/Kg		09/25/14 17:10	10/13/14 15:13	20
2-Nitroaniline	ND		33		mg/Kg		09/25/14 17:10	10/13/14 15:13	20
Dimethyl phthalate	ND		17		mg/Kg		09/25/14 17:10	10/13/14 15:13	20
Acenaphthylene	ND		6.6		mg/Kg		09/25/14 17:10	10/13/14 15:13	20
3-Nitroaniline	ND		17		mg/Kg		09/25/14 17:10	10/13/14 15:13	20
Acenaphthene	ND		6.6		mg/Kg		09/25/14 17:10	10/13/14 15:13	20
2,4-Dinitrophenol	ND		65		mg/Kg		09/25/14 17:10	10/13/14 15:13	20
4-Nitrophenol	ND		33		mg/Kg		09/25/14 17:10	10/13/14 15:13	20
Dibenzofuran	ND		6.6		mg/Kg		09/25/14 17:10	10/13/14 15:13	20
2,4-Dinitrotoluene	ND		6.6		mg/Kg		09/25/14 17:10	10/13/14 15:13	20
2,6-Dinitrotoluene	ND		6.6		mg/Kg		09/25/14 17:10	10/13/14 15:13	20
Diethyl phthalate	ND		17		mg/Kg		09/25/14 17:10	10/13/14 15:13	20
4-Chlorophenyl phenyl ether	ND		17		mg/Kg		09/25/14 17:10	10/13/14 15:13	20
Fluorene	ND		6.6		mg/Kg		09/25/14 17:10	10/13/14 15:13	20
4-Nitroaniline	ND		33		mg/Kg		09/25/14 17:10	10/13/14 15:13	20
2-Methyl-4,6-dinitrophenol	ND		33		mg/Kg		09/25/14 17:10	10/13/14 15:13	20
N-Nitrosodiphenylamine	ND		6.6		mg/Kg		09/25/14 17:10	10/13/14 15:13	20
4-Bromophenyl phenyl ether	ND		17		mg/Kg		09/25/14 17:10	10/13/14 15:13	20
Hexachlorobenzene	ND		6.6		mg/Kg		09/25/14 17:10	10/13/14 15:13	20
Pentachlorophenol	ND		33		mg/Kg		09/25/14 17:10	10/13/14 15:13	20
Phenanthrene	ND		6.6		mg/Kg		09/25/14 17:10	10/13/14 15:13	20
Anthracene	ND		6.6		mg/Kg		09/25/14 17:10	10/13/14 15:13	20
Di-n-butyl phthalate	ND		17		mg/Kg		09/25/14 17:10	10/13/14 15:13	20
Fluoranthene	ND		6.6		mg/Kg		09/25/14 17:10	10/13/14 15:13	20
Pyrene	ND *		6.6		mg/Kg		09/25/14 17:10	10/13/14 15:13	20
Butyl benzyl phthalate	ND *		17		mg/Kg		09/25/14 17:10	10/13/14 15:13	20
3,3'-Dichlorobenzidine	ND *		17		mg/Kg		09/25/14 17:10	10/13/14 15:13	20
Benzo[a]anthracene	ND *		33		mg/Kg		09/25/14 17:10	10/13/14 15:13	20
Bis(2-ethylhexyl) phthalate	ND *		33		mg/Kg		09/25/14 17:10	10/13/14 15:13	20
Chrysene	ND *		6.6		mg/Kg		09/25/14 17:10	10/13/14 15:13	20
Di-n-octyl phthalate	ND *		17		mg/Kg		09/25/14 17:10	10/13/14 15:13	20
Benzo[b]fluoranthene	ND		6.6		mg/Kg		09/25/14 17:10	10/13/14 15:13	20
Benzo[a]pyrene	ND		6.6		mg/Kg		09/25/14 17:10	10/13/14 15:13	20
Benzo[k]fluoranthene	ND		6.6		mg/Kg		09/25/14 17:10	10/13/14 15:13	20
Indeno[1,2,3-cd]pyrene	ND		6.6		mg/Kg		09/25/14 17:10	10/13/14 15:13	20
Benzo[g,h,i]perylene	ND		6.6		mg/Kg		09/25/14 17:10	10/13/14 15:13	20
Benzoic acid	ND		33		mg/Kg		09/25/14 17:10	10/13/14 15:13	20
Azobenzene	ND		6.6		mg/Kg		09/25/14 17:10	10/13/14 15:13	20
Dibenz(a,h)anthracene	ND		6.6		mg/Kg		09/25/14 17:10	10/13/14 15:13	20
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
Nitrobenzene-d5	0	X D	21 - 98				09/25/14 17:10	10/13/14 15:13	20
2-Fluorobiphenyl	0	X D	30 - 112				09/25/14 17:10	10/13/14 15:13	20
Terphenyl-d14	0	X * D	32 - 117				09/25/14 17:10	10/13/14 15:13	20
2-Fluorophenol	0	X D	28 - 98				09/25/14 17:10	10/13/14 15:13	20
Phenol-d5	0	X D	23 - 101				09/25/14 17:10	10/13/14 15:13	20
2,4,6-Tribromophenol	0	X D	37 - 114				09/25/14 17:10	10/13/14 15:13	20

TestAmerica Pleasanton

Client Sample Results

Client: City of San Leandro
Project/Site: WPCP San Leandro

TestAmerica Job ID: 720-60070-1

Client Sample ID: SLUDGE BED #12 WEST

Lab Sample ID: 720-60070-1

Date Collected: 09/22/14 10:34

Matrix: Solid

Date Received: 09/22/14 15:45

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Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		160	52	ug/Kg		09/25/14 17:50	10/02/14 00:56	100
4,4'-DDE	ND		160	23	ug/Kg		09/25/14 17:50	10/02/14 00:56	100
4,4'-DDT	ND		160	57	ug/Kg		09/25/14 17:50	10/02/14 00:56	100
Aldrin	ND		160	24	ug/Kg		09/25/14 17:50	10/02/14 00:56	100
alpha-BHC	ND		160	21	ug/Kg		09/25/14 17:50	10/02/14 00:56	100
alpha-Chlordane	ND		160	31	ug/Kg		09/25/14 17:50	10/02/14 00:56	100
beta-BHC	ND		160	64	ug/Kg		09/25/14 17:50	10/02/14 00:56	100
delta-BHC	ND		160	38	ug/Kg		09/25/14 17:50	10/02/14 00:56	100
Dieldrin	ND		160	20	ug/Kg		09/25/14 17:50	10/02/14 00:56	100
Endosulfan I	ND		160	17	ug/Kg		09/25/14 17:50	10/02/14 00:56	100
Endosulfan II	ND		160	28	ug/Kg		09/25/14 17:50	10/02/14 00:56	100
Endosulfan sulfate	ND		160	26	ug/Kg		09/25/14 17:50	10/02/14 00:56	100
Endrin	ND		160	29	ug/Kg		09/25/14 17:50	10/02/14 00:56	100
Endrin aldehyde	ND		160	16	ug/Kg		09/25/14 17:50	10/02/14 00:56	100
Endrin ketone	ND		160	47	ug/Kg		09/25/14 17:50	10/02/14 00:56	100
gamma-BHC (Lindane)	ND		160	44	ug/Kg		09/25/14 17:50	10/02/14 00:56	100
gamma-Chlordane	ND		160	25	ug/Kg		09/25/14 17:50	10/02/14 00:56	100
Heptachlor	ND		160	21	ug/Kg		09/25/14 17:50	10/02/14 00:56	100
Heptachlor epoxide	ND		160	41	ug/Kg		09/25/14 17:50	10/02/14 00:56	100
Kepone	ND		7200	2400	ug/Kg		09/25/14 17:50	10/02/14 00:56	100
Methoxychlor	ND		320	43	ug/Kg		09/25/14 17:50	10/02/14 00:56	100
Toxaphene	ND		6400	1500	ug/Kg		09/25/14 17:50	10/02/14 00:56	100
Mirex	ND		160	26	ug/Kg		09/25/14 17:50	10/02/14 00:56	100
Technical Chlordane	ND		2400	750	ug/Kg		09/25/14 17:50	10/02/14 00:56	100
Surrogate	%Recovery	Qualifier		Limits			Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	0	DX		63 - 124			09/25/14 17:50	10/02/14 00:56	100
Tetrachloro-m-xylene	0	DX		59 - 115			09/25/14 17:50	10/02/14 00:56	100

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		99		ug/Kg		09/30/14 11:53	10/01/14 10:12	2
PCB-1221	ND		99		ug/Kg		09/30/14 11:53	10/01/14 10:12	2
PCB-1232	ND		99		ug/Kg		09/30/14 11:53	10/01/14 10:12	2
PCB-1242	ND		99		ug/Kg		09/30/14 11:53	10/01/14 10:12	2
PCB-1248	ND		99		ug/Kg		09/30/14 11:53	10/01/14 10:12	2
PCB-1254	ND		99		ug/Kg		09/30/14 11:53	10/01/14 10:12	2
PCB-1260	ND		99		ug/Kg		09/30/14 11:53	10/01/14 10:12	2
Surrogate	%Recovery	Qualifier		Limits			Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	97			45 - 132			09/30/14 11:53	10/01/14 10:12	2
DCB Decachlorobiphenyl	82			42 - 146			09/30/14 11:53	10/01/14 10:12	2

Method: 8141A - Organophosphorous Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Azinphos-methyl	ND		330		ug/Kg		10/02/14 09:20	10/03/14 14:28	10
Bolstar	ND		330		ug/Kg		10/02/14 09:20	10/03/14 14:28	10
Chlorpyrifos	ND		330		ug/Kg		10/02/14 09:20	10/03/14 14:28	10
Coumaphos	ND		330		ug/Kg		10/02/14 09:20	10/03/14 14:28	10
Demeton, Total	ND		650		ug/Kg		10/02/14 09:20	10/03/14 14:28	10

TestAmerica Pleasanton

Client Sample Results

Client: City of San Leandro
Project/Site: WPCP San Leandro

TestAmerica Job ID: 720-60070-1

Client Sample ID: SLUDGE BED #12 WEST

Lab Sample ID: 720-60070-1

Date Collected: 09/22/14 10:34

Matrix: Solid

Date Received: 09/22/14 15:45

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Method: 8141A - Organophosphorous Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Demeton-O	ND		330		ug/Kg		10/02/14 09:20	10/03/14 14:28	10
Demeton-S	ND		330		ug/Kg		10/02/14 09:20	10/03/14 14:28	10
Diazinon	ND		330		ug/Kg		10/02/14 09:20	10/03/14 14:28	10
Dichlorvos	ND		330		ug/Kg		10/02/14 09:20	10/03/14 14:28	10
Dimethoate	ND		330		ug/Kg		10/02/14 09:20	10/03/14 14:28	10
Disulfoton	ND		330		ug/Kg		10/02/14 09:20	10/03/14 14:28	10
EPN	ND		330		ug/Kg		10/02/14 09:20	10/03/14 14:28	10
Famphur	ND		330		ug/Kg		10/02/14 09:20	10/03/14 14:28	10
Fensulfothion	ND		330		ug/Kg		10/02/14 09:20	10/03/14 14:28	10
Fenthion	ND		330		ug/Kg		10/02/14 09:20	10/03/14 14:28	10
Malathion	ND		330		ug/Kg		10/02/14 09:20	10/03/14 14:28	10
Methyl parathion	ND		330		ug/Kg		10/02/14 09:20	10/03/14 14:28	10
Mevinphos	ND		330		ug/Kg		10/02/14 09:20	10/03/14 14:28	10
O,O,O-Triethyl phosphorothioate	ND		330		ug/Kg		10/02/14 09:20	10/03/14 14:28	10
Parathion	ND		330		ug/Kg		10/02/14 09:20	10/03/14 14:28	10
Phorate	ND		330		ug/Kg		10/02/14 09:20	10/03/14 14:28	10
Ronnel	ND		330		ug/Kg		10/02/14 09:20	10/03/14 14:28	10
Stirophos	ND		330		ug/Kg		10/02/14 09:20	10/03/14 14:28	10
Sulfotep	ND		330		ug/Kg		10/02/14 09:20	10/03/14 14:28	10
Tokuthion	ND		330		ug/Kg		10/02/14 09:20	10/03/14 14:28	10
Trichloronate	ND		330		ug/Kg		10/02/14 09:20	10/03/14 14:28	10
Mocap	ND		330		ug/Kg		10/02/14 09:20	10/03/14 14:28	10
Thionazin	ND		330		ug/Kg		10/02/14 09:20	10/03/14 14:28	10
Surrogate		%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Triphenylphosphate		84	p	55 - 125			10/02/14 09:20	10/03/14 14:28	10
Tributyl phosphate		77		47 - 130			10/02/14 09:20	10/03/14 14:28	10

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		20		ug/Kg		09/29/14 09:24	10/03/14 13:21	20
2,4-D	ND		80		ug/Kg		09/29/14 09:24	10/03/14 13:21	20
Silvex (2,4,5-TP)	ND		20		ug/Kg		09/29/14 09:24	10/03/14 13:21	20
Dalapon	ND		90		ug/Kg		09/29/14 09:24	10/03/14 13:21	20
2,4-DB	ND		80		ug/Kg		09/29/14 09:24	10/03/14 13:21	20
Dicamba	ND		40		ug/Kg		09/29/14 09:24	10/03/14 13:21	20
Dichlorprop	ND		80		ug/Kg		09/29/14 09:24	10/03/14 13:21	20
Dinoseb	ND		12		ug/Kg		09/29/14 09:24	10/03/14 13:21	20
MCPA	15000			8000			09/29/14 09:24	10/03/14 13:21	20
Pentachlorophenol	ND	*	11		ug/Kg		09/29/14 09:24	10/03/14 13:21	20
MCPP	8600	p		8000			09/29/14 09:24	10/03/14 13:21	20
Surrogate		%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
DCAA		98		42 - 140			09/29/14 09:24	10/03/14 13:21	20

Method: 1613B - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	ND		1.0		pg/g		09/25/14 12:30	10/01/14 05:51	1
1,2,3,7,8-PeCDD	ND	G	7.9		pg/g		09/25/14 12:30	10/01/14 05:51	1
1,2,3,7,8-PeCDF	ND		5.0		pg/g		09/25/14 12:30	10/01/14 05:51	1

TestAmerica Pleasanton

Client Sample Results

Client: City of San Leandro
Project/Site: WPCP San Leandro

TestAmerica Job ID: 720-60070-1

Client Sample ID: SLUDGE BED #12 WEST

Lab Sample ID: 720-60070-1

Date Collected: 09/22/14 10:34

Matrix: Solid

Date Received: 09/22/14 15:45

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Method: 1613B - Dioxins and Furans (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,4,7,8-PeCDF	ND		5.0		pg/g		09/25/14 12:30	10/01/14 05:51	1
1,2,3,4,7,8-HxCDD	ND		5.0		pg/g		09/25/14 12:30	10/01/14 05:51	1
1,2,3,6,7,8-HxCDD	9.4		5.0		pg/g		09/25/14 12:30	10/01/14 05:51	1
1,2,3,7,8,9-HxCDD	ND		5.0		pg/g		09/25/14 12:30	10/01/14 05:51	1
1,2,3,4,7,8-HxCDF	ND		5.0		pg/g		09/25/14 12:30	10/01/14 05:51	1
1,2,3,6,7,8-HxCDF	ND		5.0		pg/g		09/25/14 12:30	10/01/14 05:51	1
1,2,3,7,8,9-HxCDF	ND		5.0		pg/g		09/25/14 12:30	10/01/14 05:51	1
2,3,4,6,7,8-HxCDF	ND		5.0		pg/g		09/25/14 12:30	10/01/14 05:51	1
1,2,3,4,6,7,8-HpCDD	360		5.0		pg/g		09/25/14 12:30	10/01/14 05:51	1
1,2,3,4,6,7,8-HpCDF	35 q		5.0		pg/g		09/25/14 12:30	10/01/14 05:51	1
1,2,3,4,7,8,9-HpCDF	ND		5.0		pg/g		09/25/14 12:30	10/01/14 05:51	1
OCDD	2600		10		pg/g		09/25/14 12:30	10/01/14 05:51	1
OCDF	92		10		pg/g		09/25/14 12:30	10/01/14 05:51	1
Total TCDD	13 q		1.0		pg/g		09/25/14 12:30	10/01/14 05:51	1
Total TCDF	27		1.0		pg/g		09/25/14 12:30	10/01/14 05:51	1
Total PeCDD	69 G q		7.9		pg/g		09/25/14 12:30	10/01/14 05:51	1
Total PeCDF	12		5.0		pg/g		09/25/14 12:30	10/01/14 05:51	1
Total HxCDD	72		5.0		pg/g		09/25/14 12:30	10/01/14 05:51	1
Total HxCDF	25		5.0		pg/g		09/25/14 12:30	10/01/14 05:51	1
Total HpCDD	570		5.0		pg/g		09/25/14 12:30	10/01/14 05:51	1
Total HpCDF	76 q		5.0		pg/g		09/25/14 12:30	10/01/14 05:51	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDD	51		25 - 164				09/25/14 12:30	10/01/14 05:51	1
13C-2,3,7,8-TCDF	48		24 - 169				09/25/14 12:30	10/01/14 05:51	1
13C-1,2,3,7,8-PeCDD	55		25 - 181				09/25/14 12:30	10/01/14 05:51	1
13C-1,2,3,7,8-PeCDF	54		24 - 185				09/25/14 12:30	10/01/14 05:51	1
13C-2,3,4,7,8-PeCDF	54		21 - 178				09/25/14 12:30	10/01/14 05:51	1
13C-1,2,3,4,7,8-HxCDD	59		32 - 141				09/25/14 12:30	10/01/14 05:51	1
13C-1,2,3,6,7,8-HxCDD	48		28 - 130				09/25/14 12:30	10/01/14 05:51	1
13C-1,2,3,4,7,8-HxCDF	62		26 - 152				09/25/14 12:30	10/01/14 05:51	1
13C-1,2,3,6,7,8-HxCDF	61		26 - 123				09/25/14 12:30	10/01/14 05:51	1
13C-1,2,3,7,8,9-HxCDF	52		29 - 147				09/25/14 12:30	10/01/14 05:51	1
13C-2,3,4,6,7,8-HxCDF	59		28 - 136				09/25/14 12:30	10/01/14 05:51	1
13C-1,2,3,4,6,7,8-HpCDD	42		23 - 140				09/25/14 12:30	10/01/14 05:51	1
13C-1,2,3,4,6,7,8-HpCDF	44		28 - 143				09/25/14 12:30	10/01/14 05:51	1
13C-1,2,3,4,7,8,9-HpCDF	45		26 - 138				09/25/14 12:30	10/01/14 05:51	1
13C-OCDD	40		17 - 157				09/25/14 12:30	10/01/14 05:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
37Cl4-2,3,7,8-TCDD	99		35 - 197				09/25/14 12:30	10/01/14 05:51	1

Method: 1613B - Dioxins and Furans (HRGC/HRMS) - RA

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDF	2.3 G		1.3		pg/g		09/25/14 12:30	10/01/14 16:47	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDF	36		24 - 169				09/25/14 12:30	10/01/14 16:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
37Cl4-2,3,7,8-TCDD	95		35 - 197				09/25/14 12:30	10/01/14 16:47	1

TestAmerica Pleasanton

Client Sample Results

Client: City of San Leandro
Project/Site: WPCP San Leandro

TestAmerica Job ID: 720-60070-1

Client Sample ID: SLUDGE BED #12 WEST

Lab Sample ID: 720-60070-1

Date Collected: 09/22/14 10:34

Matrix: Solid

Date Received: 09/22/14 15:45

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Method: 20B - Sodium Adsorption Ratio - Soluble

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Sodium Adsorption Ratio	1.2				NONE		10/10/14 15:34	10/14/14 15:16	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.9		0.41		mg/Kg		10/08/14 18:37	10/10/14 10:36	1
Arsenic	4.4		0.81		mg/Kg		10/08/14 18:37	10/10/14 10:36	1
Barium	230		0.41		mg/Kg		10/08/14 18:37	10/10/14 10:36	1
Beryllium	0.093		0.081		mg/Kg		10/08/14 18:37	10/10/14 10:36	1
Cadmium	1.5		0.10		mg/Kg		10/08/14 18:37	10/10/14 10:36	1
Chromium	54		0.41		mg/Kg		10/08/14 18:37	10/10/14 10:36	1
Cobalt	8.0		0.16		mg/Kg		10/08/14 18:37	10/10/14 10:36	1
Copper	340		1.2		mg/Kg		10/08/14 18:37	10/10/14 10:36	1
Lead	33		0.41		mg/Kg		10/08/14 18:37	10/10/14 10:36	1
Molybdenum	14		0.41		mg/Kg		10/08/14 18:37	10/10/14 10:36	1
Nickel	35		0.41		mg/Kg		10/08/14 18:37	10/10/14 10:36	1
Selenium	4.7		0.81		mg/Kg		10/08/14 18:37	10/10/14 10:36	1
Silver	4.9		0.20		mg/Kg		10/08/14 18:37	10/10/14 10:36	1
Thallium	ND		0.41		mg/Kg		10/08/14 18:37	10/10/14 10:36	1
Vanadium	19		0.41		mg/Kg		10/08/14 18:37	10/10/14 10:36	1
Zinc	770		1.2		mg/Kg		10/08/14 18:37	10/10/14 10:36	1
Sodium	1300 B		4.1		mg/Kg		10/08/14 18:37	10/10/14 10:36	1
Calcium	29000		16		mg/Kg		10/08/14 18:37	10/10/14 00:26	4
Boron	20		0.81		mg/Kg		10/08/14 18:37	10/10/14 10:36	1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.97		mg/Kg		10/09/14 14:51	10/13/14 18:17	100

Method: 939-M - Organic Lead (GFAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Organic-Lead	ND		25		ug/Kg		09/26/14 18:49	09/29/14 17:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Kjeldahl Nitrogen	37000		9800		mg/Kg		09/29/14 08:33	09/29/14 11:10	10
Phenols, Total	1.1		0.98		mg/Kg		09/28/14 06:59	09/28/14 11:58	1
Cr (VI)	ND		5.0		mg/Kg		09/25/14 16:36	09/26/14 21:54	5
Percent Moisture	12		0.10		%			09/24/14 20:50	1
Cyanide, Total	6.4		0.49		mg/Kg		09/30/14 14:57	09/30/14 18:23	1
Phosphorus as P	9100		990		mg/Kg		10/09/14 10:30	10/10/14 15:09	25
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrogen, Organic	33000		10		mg/Kg			10/09/14 15:31	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		9.9		mg/Kg			10/01/14 15:01	1
Nitrate as N	1200		220		mg/Kg			10/01/14 17:19	100
Specific Conductance	31000		1.0		umhos/cm			09/24/14 23:00	1
Ammonia (as N)	3800		400		mg/Kg			10/08/14 20:12	200

TestAmerica Pleasanton

Client Sample Results

Client: City of San Leandro
Project/Site: WPCP San Leandro

TestAmerica Job ID: 720-60070-1

Client Sample ID: SLUDGE BED #12 WEST

Lab Sample ID: 720-60070-1

Date Collected: 09/22/14 10:34

Matrix: Solid

Date Received: 09/22/14 15:45

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.79		0.100		SU			09/25/14 17:30	1

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TestAmerica Pleasanton

Isotope Dilution Summary

Client: City of San Leandro
Project/Site: WPCP San Leandro

TestAmerica Job ID: 720-60070-1

Method: 1613B - Dioxins and Furans (HRGC/HRMS)

Matrix: Solid

Prep Type: Total/NA

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	TCDD (25-164)	TCDF (24-169)	PeCDD (25-181)	PeCDF1 (24-185)	PeCDF2 (21-178)	HxCDD1 (32-141)	HxCDD2 (28-130)	HxCDF1 (26-152)
720-60070-1	SLUDGE BED #12 WEST	51	48	55	54	54	59	48	62
720-60070-1 - RA	SLUDGE BED #12 WEST		36						
MB 320-53323/1-A	Method Blank	82	77	80	84	81	81	83	78
		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	HxCDF2 (26-123)	HxCDF4 (29-147)	HxCDF3 (28-136)	HxCDF4 (23-140)	HxCDF1 (28-143)	HxCDF2 (26-138)	OCDD (17-157)	HxCDF1 (26-152)
720-60070-1	SLUDGE BED #12 WEST	61	52	59	42	44	45	40	62
720-60070-1 - RA	SLUDGE BED #12 WEST								
MB 320-53323/1-A	Method Blank	78	79	81	88	84	90	97	78
		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	HxCDF2 (21-159)	HxCDF2 (26-123)	HxCDF4 (17-205)	HxCDF4 (29-147)	HxCDF3 (22-176)	HxCDF3 (28-136)	HxCDD (23-140)	HxCDD (26-166)
720-60070-1	SLUDGE BED #12 WEST		61		52		59	42	
720-60070-1 - RA	SLUDGE BED #12 WEST								
MB 320-53323/1-A	Method Blank		78		79		81	88	
		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	HxCDF1 (21-158)	HxCDF1 (28-143)	HxCDF2 (20-186)	HxCDF2 (26-138)	OCDD (13-199)	OCDD (17-157)		
720-60070-1	SLUDGE BED #12 WEST		44		45		40		
720-60070-1 - RA	SLUDGE BED #12 WEST								
MB 320-53323/1-A	Method Blank		84		90		97		
Surrogate Legend									
TCDD = 13C-2,3,7,8-TCDD									
TCDF = 13C-2,3,7,8-TCDF									
PeCDD = 13C-1,2,3,7,8-PeCDD									
PeCDF1 = 13C-1,2,3,7,8-PeCDF									
PeCDF2 = 13C-2,3,4,7,8-PeCDF									
HxCDD1 = 13C-1,2,3,4,7,8-HxCDD									
HxCDD2 = 13C-1,2,3,6,7,8-HxCDD									
HxCDF1 = 13C-1,2,3,4,7,8-HxCDF									
HxCDF2 = 13C-1,2,3,6,7,8-HxCDF									
HxCDF4 = 13C-1,2,3,7,8-HxCDF									
HxCDF3 = 13C-2,3,4,6,7,8-HxCDF									
HpCDD = 13C-1,2,3,4,6,7,8-HpCDD									
HpCDF1 = 13C-1,2,3,4,6,7,8-HpCDF									
HpCDF2 = 13C-1,2,3,4,7,8-HpCDF									
OCDD = 13C-OCDD									

Method: 1613B - Dioxins and Furans (HRGC/HRMS)

Matrix: Solid

Prep Type: Total/NA

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	TCDD (20-175)	TCDF (22-152)	PeCDD (21-227)	PeCDF1 (21-192)	PeCDF2 (13-328)	HxCDD1 (21-193)	HxCDD2 (25-163)	HxCDF1 (19-202)
LCS 320-53323/2-A	Lab Control Sample	71	67	71	74	72	71	72	68
LCSD 320-53323/3-A	Lab Control Sample Dup	84	81	85	88	86	82	84	78

TestAmerica Pleasanton

Isotope Dilution Summary

Client: City of San Leandro
Project/Site: WPCP San Leandro

TestAmerica Job ID: 720-60070-1

Method: 1613B - Dioxins and Furans (HRGC/HRMS) (Continued)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Isotope Dilution Recovery (Acceptance Limits)						
		HxCDF2 (21-159)	HxCDF4 (17-205)	HxCDF3 (22-176)	HpCDD (26-166)	HpCDF1 (21-158)	HpCDF2 (20-186)	OCDD (13-199)
LCS 320-53323/2-A	Lab Control Sample	68	70	69	79	75	82	88
LCSD 320-53323/3-A	Lab Control Sample Dup	78	81	78	90	88	96	103

Surrogate Legend

TCDD = 13C-2,3,7,8-TCDD

TCDF = 13C-2,3,7,8-TCDF

PeCDD = 13C-1,2,3,7,8-PeCDD

PeCDF1 = 13C-1,2,3,7,8-PeCDF

PeCDF2 = 13C-2,3,4,7,8-PeCDF

HxCDD1 = 13C-1,2,3,4,7,8-HxCDD

HxCDD2 = 13C-1,2,3,6,7,8-HxCDD

HxCDF1 = 13C-1,2,3,4,7,8-HxCDF

HxCDF2 = 13C-1,2,3,6,7,8-HxCDF

HxCDF4 = 13C-1,2,3,7,8,9-HxCDF

HxCDF3 = 13C-2,3,4,6,7,8-HxCDF

HpCDD = 13C-1,2,3,4,6,7,8-HpCDD

HpCDF1 = 13C-1,2,3,4,6,7,8-HpCDF

HpCDF2 = 13C-1,2,3,4,7,8,9-HpCDF

OCDD = 13C-OCDD

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TestAmerica Pleasanton

QC Sample Results

Client: City of San Leandro
Project/Site: WPCP San Leandro

TestAmerica Job ID: 720-60070-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 720-167762/4

Matrix: Solid

Analysis Batch: 167762

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether			ND		5.0		ug/Kg		09/27/14 12:20		1
Acetone			ND		50		ug/Kg		09/27/14 12:20		1
Benzene			ND		5.0		ug/Kg		09/27/14 12:20		1
Dichlorobromomethane			ND		5.0		ug/Kg		09/27/14 12:20		1
Bromobenzene			ND		5.0		ug/Kg		09/27/14 12:20		1
Chlorobromomethane			ND		20		ug/Kg		09/27/14 12:20		1
Bromoform			ND		5.0		ug/Kg		09/27/14 12:20		1
Bromomethane			ND		10		ug/Kg		09/27/14 12:20		1
2-Butanone (MEK)			ND		50		ug/Kg		09/27/14 12:20		1
n-Butylbenzene			ND		5.0		ug/Kg		09/27/14 12:20		1
sec-Butylbenzene			ND		5.0		ug/Kg		09/27/14 12:20		1
tert-Butylbenzene			ND		5.0		ug/Kg		09/27/14 12:20		1
Carbon disulfide			ND		5.0		ug/Kg		09/27/14 12:20		1
Carbon tetrachloride			ND		5.0		ug/Kg		09/27/14 12:20		1
Chlorobenzene			ND		5.0		ug/Kg		09/27/14 12:20		1
Chloroethane			ND		10		ug/Kg		09/27/14 12:20		1
Chloroform			ND		5.0		ug/Kg		09/27/14 12:20		1
Chloromethane			ND		10		ug/Kg		09/27/14 12:20		1
2-Chlorotoluene			ND		5.0		ug/Kg		09/27/14 12:20		1
4-Chlorotoluene			ND		5.0		ug/Kg		09/27/14 12:20		1
Chlorodibromomethane			ND		5.0		ug/Kg		09/27/14 12:20		1
1,2-Dichlorobenzene			ND		5.0		ug/Kg		09/27/14 12:20		1
1,3-Dichlorobenzene			ND		5.0		ug/Kg		09/27/14 12:20		1
1,4-Dichlorobenzene			ND		5.0		ug/Kg		09/27/14 12:20		1
1,3-Dichloropropane			ND		5.0		ug/Kg		09/27/14 12:20		1
1,1-Dichloropropene			ND		5.0		ug/Kg		09/27/14 12:20		1
1,2-Dibromo-3-Chloropropane			ND		10		ug/Kg		09/27/14 12:20		1
Ethylene Dibromide			ND		5.0		ug/Kg		09/27/14 12:20		1
Dibromomethane			ND		10		ug/Kg		09/27/14 12:20		1
Dichlorodifluoromethane			ND		10		ug/Kg		09/27/14 12:20		1
1,1-Dichloroethane			ND		5.0		ug/Kg		09/27/14 12:20		1
1,2-Dichloroethane			ND		5.0		ug/Kg		09/27/14 12:20		1
1,1-Dichloroethene			ND		5.0		ug/Kg		09/27/14 12:20		1
cis-1,2-Dichloroethene			ND		5.0		ug/Kg		09/27/14 12:20		1
trans-1,2-Dichloroethene			ND		5.0		ug/Kg		09/27/14 12:20		1
1,2-Dichloropropane			ND		5.0		ug/Kg		09/27/14 12:20		1
cis-1,3-Dichloropropene			ND		5.0		ug/Kg		09/27/14 12:20		1
trans-1,3-Dichloropropene			ND		5.0		ug/Kg		09/27/14 12:20		1
Ethylbenzene			ND		5.0		ug/Kg		09/27/14 12:20		1
Hexachlorobutadiene			ND		5.0		ug/Kg		09/27/14 12:20		1
2-Hexanone			ND		50		ug/Kg		09/27/14 12:20		1
Isopropylbenzene			ND		5.0		ug/Kg		09/27/14 12:20		1
4-Isopropyltoluene			ND		5.0		ug/Kg		09/27/14 12:20		1
Methylene Chloride			ND		10		ug/Kg		09/27/14 12:20		1
4-Methyl-2-pentanone (MIBK)			ND		50		ug/Kg		09/27/14 12:20		1
Naphthalene			ND		10		ug/Kg		09/27/14 12:20		1
N-Propylbenzene			ND		5.0		ug/Kg		09/27/14 12:20		1
Styrene			ND		5.0		ug/Kg		09/27/14 12:20		1

TestAmerica Pleasanton

QC Sample Results

Client: City of San Leandro
Project/Site: WPCP San Leandro

TestAmerica Job ID: 720-60070-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 720-167762/4

Matrix: Solid

Analysis Batch: 167762

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0		ug/Kg		09/27/14 12:20		1
1,1,2,2-Tetrachloroethane	ND		5.0		ug/Kg		09/27/14 12:20		1
Tetrachloroethene	ND		5.0		ug/Kg		09/27/14 12:20		1
Toluene	ND		5.0		ug/Kg		09/27/14 12:20		1
1,2,3-Trichlorobenzene	ND		5.0		ug/Kg		09/27/14 12:20		1
1,2,4-Trichlorobenzene	ND		5.0		ug/Kg		09/27/14 12:20		1
1,1,1-Trichloroethane	ND		5.0		ug/Kg		09/27/14 12:20		1
1,1,2-Trichloroethane	ND		5.0		ug/Kg		09/27/14 12:20		1
Trichloroethene	ND		5.0		ug/Kg		09/27/14 12:20		1
Trichlorofluoromethane	ND		5.0		ug/Kg		09/27/14 12:20		1
1,2,3-Trichloropropane	ND		5.0		ug/Kg		09/27/14 12:20		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0		ug/Kg		09/27/14 12:20		1
1,2,4-Trimethylbenzene	ND		5.0		ug/Kg		09/27/14 12:20		1
1,3,5-Trimethylbenzene	ND		5.0		ug/Kg		09/27/14 12:20		1
Vinyl acetate	ND		20		ug/Kg		09/27/14 12:20		1
Vinyl chloride	ND		5.0		ug/Kg		09/27/14 12:20		1
Xylenes, Total	ND		10		ug/Kg		09/27/14 12:20		1
2,2-Dichloropropane	ND		5.0		ug/Kg		09/27/14 12:20		1
Surrogate	MB %Recovery	MB Qualifier	MB Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	95		45 - 131				09/27/14 12:20		1
1,2-Dichloroethane-d4 (Surr)	99		60 - 140				09/27/14 12:20		1
Toluene-d8 (Surr)	96		58 - 140				09/27/14 12:20		1

Lab Sample ID: LCS 720-167762/5

Matrix: Solid

Analysis Batch: 167762

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Methyl tert-butyl ether	50.0	42.9		ug/Kg		86	70 - 144
Acetone	250	248		ug/Kg		99	30 - 162
Benzene	50.0	41.2		ug/Kg		82	70 - 130
Dichlorobromomethane	50.0	44.8		ug/Kg		90	70 - 131
Bromobenzene	50.0	43.6		ug/Kg		87	70 - 130
Chlorobromomethane	50.0	44.1		ug/Kg		88	70 - 130
Bromoform	50.0	46.6		ug/Kg		93	59 - 158
Bromomethane	50.0	47.2		ug/Kg		94	59 - 132
2-Butanone (MEK)	250	234		ug/Kg		94	53 - 124
n-Butylbenzene	50.0	43.7		ug/Kg		87	70 - 142
sec-Butylbenzene	50.0	41.8		ug/Kg		84	70 - 136
tert-Butylbenzene	50.0	42.6		ug/Kg		85	70 - 130
Carbon disulfide	50.0	35.5		ug/Kg		71	60 - 140
Carbon tetrachloride	50.0	43.9		ug/Kg		88	70 - 138
Chlorobenzene	50.0	42.9		ug/Kg		86	70 - 130
Chloroethane	50.0	49.0		ug/Kg		98	65 - 130
Chloroform	50.0	43.7		ug/Kg		87	77 - 127
Chloromethane	50.0	50.5		ug/Kg		101	55 - 140
2-Chlorotoluene	50.0	42.4		ug/Kg		85	70 - 138

TestAmerica Pleasanton

QC Sample Results

Client: City of San Leandro
Project/Site: WPCP San Leandro

TestAmerica Job ID: 720-60070-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 720-167762/5

Matrix: Solid

Analysis Batch: 167762

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.	Limits
4-Chlorotoluene	50.0	43.7		ug/Kg		87	70 - 136	
Chlorodibromomethane	50.0	47.9		ug/Kg		96	70 - 146	
1,2-Dichlorobenzene	50.0	44.6		ug/Kg		89	70 - 130	
1,3-Dichlorobenzene	50.0	44.6		ug/Kg		89	70 - 131	
1,4-Dichlorobenzene	50.0	43.6		ug/Kg		87	70 - 130	
1,3-Dichloropropane	50.0	45.2		ug/Kg		90	70 - 140	
1,1-Dichloropropene	50.0	45.1		ug/Kg		90	70 - 130	
1,2-Dibromo-3-Chloropropane	50.0	46.1		ug/Kg		92	60 - 145	
Ethylene Dibromide	50.0	46.7		ug/Kg		93	70 - 140	
Dibromomethane	50.0	45.8		ug/Kg		92	70 - 139	
Dichlorodifluoromethane	50.0	51.9		ug/Kg		104	37 - 158	
1,1-Dichloroethane	50.0	43.0		ug/Kg		86	70 - 130	
1,2-Dichloroethane	50.0	43.9		ug/Kg		88	70 - 130	
1,1-Dichloroethene	50.0	37.6 *		ug/Kg		75	76 - 122	
cis-1,2-Dichloroethene	50.0	43.3		ug/Kg		87	70 - 138	
trans-1,2-Dichloroethene	50.0	41.9		ug/Kg		84	67 - 130	
1,2-Dichloropropane	50.0	43.9		ug/Kg		88	73 - 127	
cis-1,3-Dichloropropene	50.0	47.3		ug/Kg		95	68 - 147	
trans-1,3-Dichloropropene	50.0	51.2		ug/Kg		102	70 - 136	
Ethylbenzene	50.0	40.2		ug/Kg		80	80 - 137	
Hexachlorobutadiene	50.0	40.5		ug/Kg		81	70 - 132	
2-Hexanone	250	263		ug/Kg		105	44 - 133	
Isopropylbenzene	50.0	42.5		ug/Kg		85	70 - 130	
4-Isopropyltoluene	50.0	41.8		ug/Kg		84	70 - 133	
Methylene Chloride	50.0	40.9		ug/Kg		82	70 - 134	
4-Methyl-2-pentanone (MIBK)	250	268		ug/Kg		107	60 - 160	
Naphthalene	50.0	45.5		ug/Kg		91	60 - 147	
N-Propylbenzene	50.0	42.4		ug/Kg		85	70 - 130	
Styrene	50.0	44.3		ug/Kg		89	70 - 130	
1,1,1,2-Tetrachloroethane	50.0	44.7		ug/Kg		89	70 - 130	
1,1,2,2-Tetrachloroethane	50.0	47.0		ug/Kg		94	70 - 146	
Tetrachloroethene	50.0	44.0		ug/Kg		88	70 - 132	
Toluene	50.0	38.5 *		ug/Kg		77	80 - 128	
1,2,3-Trichlorobenzene	50.0	43.2		ug/Kg		86	60 - 140	
1,2,4-Trichlorobenzene	50.0	44.0		ug/Kg		88	60 - 140	
1,1,1-Trichloroethane	50.0	42.6		ug/Kg		85	70 - 130	
1,1,2-Trichloroethane	50.0	46.4		ug/Kg		93	70 - 130	
Trichloroethene	50.0	43.2		ug/Kg		86	70 - 133	
Trichlorofluoromethane	50.0	49.9		ug/Kg		100	60 - 140	
1,2,3-Trichloropropane	50.0	48.1		ug/Kg		96	70 - 146	
1,1,2-Trichloro-1,2,2-trifluoroetha ne	50.0	37.7		ug/Kg		75	60 - 140	
1,2,4-Trimethylbenzene	50.0	42.2		ug/Kg		84	70 - 130	
1,3,5-Trimethylbenzene	50.0	42.9		ug/Kg		86	70 - 131	
Vinyl acetate	50.0	43.9		ug/Kg		88	38 - 176	
Vinyl chloride	50.0	47.9		ug/Kg		96	58 - 125	
2,2-Dichloropropane	50.0	47.5		ug/Kg		95	70 - 162	

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TestAmerica Pleasanton

QC Sample Results

Client: City of San Leandro
Project/Site: WPCP San Leandro

TestAmerica Job ID: 720-60070-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 720-167762/5

Matrix: Solid

Analysis Batch: 167762

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Surrogate	LCS	LCS	%Recovery	Qualifier	Limits
4-Bromofluorobenzene		97			45 - 131
1,2-Dichloroethane-d4 (Sur)		97			60 - 140
Toluene-d8 (Sur)		97			58 - 140

Lab Sample ID: LCSD 720-167762/6

Matrix: Solid

Analysis Batch: 167762

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	Limits	RPD	RPD Limit
Methyl tert-butyl ether	50.0	47.0		ug/Kg		94	70 - 144	9	20
Acetone	250	264		ug/Kg		106	30 - 162	6	30
Benzene	50.0	45.0		ug/Kg		90	70 - 130	9	20
Dichlorobromomethane	50.0	49.5		ug/Kg		99	70 - 131	10	20
Bromobenzene	50.0	49.4		ug/Kg		99	70 - 130	12	20
Chlorobromomethane	50.0	48.6		ug/Kg		97	70 - 130	10	20
Bromoform	50.0	51.5		ug/Kg		103	59 - 158	10	20
Bromomethane	50.0	48.2		ug/Kg		96	59 - 132	2	20
2-Butanone (MEK)	250	227		ug/Kg		91	53 - 124	3	20
n-Butylbenzene	50.0	48.7		ug/Kg		97	70 - 142	11	20
sec-Butylbenzene	50.0	47.3		ug/Kg		95	70 - 136	12	20
tert-Butylbenzene	50.0	48.0		ug/Kg		96	70 - 130	12	20
Carbon disulfide	50.0	38.2		ug/Kg		76	60 - 140	7	20
Carbon tetrachloride	50.0	47.0		ug/Kg		94	70 - 138	7	20
Chlorobenzene	50.0	46.5		ug/Kg		93	70 - 130	8	20
Chloroethane	50.0	50.5		ug/Kg		101	65 - 130	3	20
Chloroform	50.0	47.8		ug/Kg		96	77 - 127	9	20
Chloromethane	50.0	52.4		ug/Kg		105	55 - 140	4	20
2-Chlorotoluene	50.0	47.3		ug/Kg		95	70 - 138	11	20
4-Chlorotoluene	50.0	48.6		ug/Kg		97	70 - 136	11	20
Chlorodibromomethane	50.0	53.1		ug/Kg		106	70 - 146	10	20
1,2-Dichlorobenzene	50.0	49.5		ug/Kg		99	70 - 130	10	20
1,3-Dichlorobenzene	50.0	49.3		ug/Kg		99	70 - 131	10	20
1,4-Dichlorobenzene	50.0	48.5		ug/Kg		97	70 - 130	11	20
1,3-Dichloropropane	50.0	49.7		ug/Kg		99	70 - 140	9	20
1,1-Dichloropropene	50.0	49.4		ug/Kg		99	70 - 130	9	20
1,2-Dibromo-3-Chloropropane	50.0	51.8		ug/Kg		104	60 - 145	12	20
Ethylene Dibromide	50.0	52.2		ug/Kg		104	70 - 140	11	20
Dibromomethane	50.0	50.7		ug/Kg		101	70 - 139	10	20
Dichlorodifluoromethane	50.0	52.4		ug/Kg		105	37 - 158	1	20
1,1-Dichloroethane	50.0	47.0		ug/Kg		94	70 - 130	9	20
1,2-Dichloroethane	50.0	47.3		ug/Kg		95	70 - 130	7	20
1,1-Dichloroethene	50.0	41.3		ug/Kg		83	76 - 122	9	20
cis-1,2-Dichloroethene	50.0	46.9		ug/Kg		94	70 - 138	8	20
trans-1,2-Dichloroethene	50.0	46.0		ug/Kg		92	67 - 130	9	20
1,2-Dichloropropene	50.0	48.5		ug/Kg		97	73 - 127	10	20
cis-1,3-Dichloropropene	50.0	52.4		ug/Kg		105	68 - 147	10	20
trans-1,3-Dichloropropene	50.0	56.5		ug/Kg		113	70 - 136	10	20
Ethylbenzene	50.0	43.9		ug/Kg		88	80 - 137	9	20

TestAmerica Pleasanton

QC Sample Results

Client: City of San Leandro
Project/Site: WPCP San Leandro

TestAmerica Job ID: 720-60070-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 720-167762/6

Matrix: Solid

Analysis Batch: 167762

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec.	RPD	Limit
Hexachlorobutadiene	50.0	45.3		ug/Kg		91	70 - 132	11	20
2-Hexanone	250	271		ug/Kg		108	44 - 133	3	20
Isopropylbenzene	50.0	46.1		ug/Kg		92	70 - 130	8	20
4-Isopropyltoluene	50.0	46.9		ug/Kg		94	70 - 133	12	20
Methylene Chloride	50.0	44.4		ug/Kg		89	70 - 134	8	20
4-Methyl-2-pentanone (MIBK)	250	268		ug/Kg		107	60 - 160	0	20
Naphthalene	50.0	51.3		ug/Kg		103	60 - 147	12	20
N-Propylbenzene	50.0	47.2		ug/Kg		94	70 - 130	11	20
Styrene	50.0	48.4		ug/Kg		97	70 - 130	9	20
1,1,1,2-Tetrachloroethane	50.0	48.5		ug/Kg		97	70 - 130	8	20
1,1,2,2-Tetrachloroethane	50.0	53.2		ug/Kg		106	70 - 146	12	20
Tetrachloroethene	50.0	48.4		ug/Kg		97	70 - 132	9	20
Toluene	50.0	42.1		ug/Kg		84	80 - 128	9	20
1,2,3-Trichlorobenzene	50.0	47.7		ug/Kg		95	60 - 140	10	20
1,2,4-Trichlorobenzene	50.0	48.4		ug/Kg		97	60 - 140	10	20
1,1,1-Trichloroethane	50.0	45.6		ug/Kg		91	70 - 130	7	20
1,1,2-Trichloroethane	50.0	50.5		ug/Kg		101	70 - 130	9	20
Trichloroethene	50.0	47.5		ug/Kg		95	70 - 133	10	20
Trichlorofluoromethane	50.0	51.5		ug/Kg		103	60 - 140	3	20
1,2,3-Trichloropropane	50.0	54.0		ug/Kg		108	70 - 146	11	20
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	41.2		ug/Kg		82	60 - 140	9	20
1,2,4-Trimethylbenzene	50.0	47.0		ug/Kg		94	70 - 130	11	20
1,3,5-Trimethylbenzene	50.0	48.3		ug/Kg		97	70 - 131	12	20
Vinyl acetate	50.0	43.9		ug/Kg		88	38 - 176	0	20
Vinyl chloride	50.0	49.1		ug/Kg		98	58 - 125	2	20
2,2-Dichloropropane	50.0	49.7		ug/Kg		99	70 - 162	5	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene	96		45 - 131
1,2-Dichloroethane-d4 (Surr)	98		60 - 140
Toluene-d8 (Surr)	97		58 - 140

Lab Sample ID: 720-60070-1 MS

Matrix: Solid

Analysis Batch: 167762

Client Sample ID: SLUDGE BED #12 WEST

Prep Type: Total/NA

Prep Batch: 167771

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec.
	Result	Qualifier		Result	Qualifier			Limits	
Methyl tert-butyl ether	ND	*	48.1	79.1	* F1	ug/Kg		165	69 - 130
Acetone	1000	*	240	2050	E * 4	ug/Kg		434	37 - 150
Benzene	ND	*	48.1	42.4	*	ug/Kg		88	70 - 130
Dichlorobromomethane	ND	*	48.1	33.2	*	ug/Kg		69	64 - 135
Bromobenzene	ND	*	48.1	69.2	* F1	ug/Kg		144	70 - 130
Chlorobromomethane	ND	*	48.1	52.9	*	ug/Kg		110	65 - 130
Bromoform	ND	*	48.1	37.7	*	ug/Kg		78	58 - 132
Bromomethane	ND	*	48.1	75.9	* F1	ug/Kg		158	56 - 130
2-Butanone (MEK)	130	*	240	712	* F1	ug/Kg		243	41 - 150
n-Butylbenzene	ND	*	48.1	49.4	*	ug/Kg		103	60 - 145

TestAmerica Pleasanton

QC Sample Results

Client: City of San Leandro
Project/Site: WPCP San Leandro

TestAmerica Job ID: 720-60070-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 720-60070-1 MS

Matrix: Solid

Analysis Batch: 167762

Client Sample ID: SLUDGE BED #12 WEST

Prep Type: Total/NA

Prep Batch: 167771

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
sec-Butylbenzene	ND *		48.1	70.0	* F1	ug/Kg	146	64 - 137	
tert-Butylbenzene	ND *		48.1	73.7	* F1	ug/Kg	153	63 - 134	
Carbon disulfide	ND *		48.1	51.1	*	ug/Kg	100	10 - 150	
Carbon tetrachloride	ND *		48.1	46.3	*	ug/Kg	96	54 - 130	
Chlorobenzene	ND *		48.1	42.6	*	ug/Kg	89	70 - 130	
Chloroethane	ND *		48.1	82.7	* F1	ug/Kg	172	61 - 130	
Chloroform	ND *		48.1	46.7	*	ug/Kg	97	67 - 130	
Chloromethane	ND *		48.1	95.4	* F1	ug/Kg	198	50 - 131	
2-Chlorotoluene	ND *		48.1	66.1	* F1	ug/Kg	138	70 - 130	
4-Chlorotoluene	ND *		48.1	63.0	* F1	ug/Kg	131	70 - 130	
Chlorodibromomethane	ND *		48.1	24.6	* F1	ug/Kg	51	60 - 141	
1,2-Dichlorobenzene	ND *		48.1	40.5	*	ug/Kg	84	70 - 130	
1,3-Dichlorobenzene	ND *		48.1	44.6	*	ug/Kg	93	70 - 130	
1,4-Dichlorobenzene	ND *		48.1	43.0	*	ug/Kg	90	70 - 130	
1,3-Dichloropropane	ND *		48.1	35.9	*	ug/Kg	75	70 - 130	
1,1-Dichloropropene	ND *		48.1	50.1	*	ug/Kg	104	67 - 130	
1,2-Dibromo-3-Chloropropane	ND *		48.1	81.2	* F1	ug/Kg	169	57 - 130	
Ethylene Dibromide	ND *		48.1	32.6	*	ug/Kg	68	66 - 135	
Dibromomethane	ND *		48.1	44.0	*	ug/Kg	92	65 - 131	
Dichlorodifluoromethane	ND *		48.1	91.3	* F1	ug/Kg	190	38 - 130	
1,1-Dichloroethane	ND *		48.1	57.1	*	ug/Kg	119	67 - 130	
1,2-Dichloroethane	ND *		48.1	50.1	*	ug/Kg	104	70 - 130	
1,1-Dichloroethylene	ND *		48.1	59.2	*	ug/Kg	123	64 - 130	
cis-1,2-Dichloroethene	ND *		48.1	49.2	*	ug/Kg	102	68 - 131	
trans-1,2-Dichloroethene	ND *		48.1	57.0	*	ug/Kg	119	70 - 130	
1,2-Dichloropropene	ND *		48.1	40.7	*	ug/Kg	85	65 - 133	
cis-1,3-Dichloropropene	ND *		48.1	35.3	*	ug/Kg	73	46 - 139	
trans-1,3-Dichloropropene	ND *		48.1	36.2	*	ug/Kg	75	55 - 131	
Ethylbenzene	ND *		48.1	44.7	*	ug/Kg	93	65 - 130	
Hexachlorobutadiene	ND *		48.1	26.4	* F1	ug/Kg	55	58 - 132	
2-Hexanone	ND *		240	403	* F1	ug/Kg	163	44 - 150	
Isopropylbenzene	ND *		48.1	37.4	*	ug/Kg	78	65 - 130	
4-Isopropyltoluene	ND *		48.1	60.6	*	ug/Kg	119	69 - 134	
Methylene Chloride	ND *		48.1	57.8	*	ug/Kg	120	63 - 130	
4-Methyl-2-pentanone (MIBK)	ND *		240	437	* F1	ug/Kg	182	51 - 140	
Naphthalene	ND *		48.1	25.7	*	ug/Kg	53	45 - 146	
N-Propylbenzene	ND *		48.1	83.5	* F1	ug/Kg	174	70 - 130	
Styrene	ND *		48.1	31.9	*	ug/Kg	66	58 - 135	
1,1,1,2-Tetrachloroethane	ND *		48.1	44.4	*	ug/Kg	92	64 - 133	
1,1,2,2-Tetrachloroethane	ND *		48.1	115	* F1	ug/Kg	239	70 - 131	
Tetrachloroethene	ND *		48.1	27.3	* F1	ug/Kg	57	67 - 130	
Toluene	ND *		48.1	63.7	*	ug/Kg	130	70 - 130	
1,2,3-Trichlorobenzene	ND *		48.1	18.4	* F1	ug/Kg	38	58 - 138	
1,2,4-Trichlorobenzene	ND *		48.1	17.4	* F1	ug/Kg	36	49 - 144	
1,1,1-Trichloroethane	ND *		48.1	49.2	*	ug/Kg	102	57 - 133	
1,1,2-Trichloroethane	ND *		48.1	34.5	*	ug/Kg	72	68 - 132	
Trichloroethene	ND *		48.1	37.6	*	ug/Kg	78	66 - 130	
Trichlorofluoromethane	ND *		48.1	71.1	* F1	ug/Kg	148	61 - 130	

TestAmerica Pleasanton

QC Sample Results

Client: City of San Leandro
Project/Site: WPCP San Leandro

TestAmerica Job ID: 720-60070-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 720-60070-1 MS

Matrix: Solid

Analysis Batch: 167762

Client Sample ID: SLUDGE BED #12 WEST

Prep Type: Total/NA

Prep Batch: 167771

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.
	Result	Qualifier	Added	Result	Qualifier				
1,2,3-Trichloropropane	ND *		48.1	159	* F1	ug/Kg	332	62 - 150	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND *		48.1	54.2	*	ug/Kg	113	52 - 130	
1,2,4-Trimethylbenzene	ND *		48.1	53.6	*	ug/Kg	112	64 - 140	
1,3,5-Trimethylbenzene	ND *		48.1	65.6	* F1	ug/Kg	137	67 - 134	
Vinyl acetate	ND *		48.1	ND	* F1	ug/Kg	0	52 - 150	
Vinyl chloride	ND *		48.1	88.6	* F1	ug/Kg	184	62 - 130	
2,2-Dichloropropane	ND *		48.1	59.2	*	ug/Kg	123	63 - 130	
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Surrogate	MS	MS	Limits	%Recovery	Qualifier				
	Surrogate	%Recovery							
4-Bromofluorobenzene	62	*	45 - 131						
1,2-Dichloroethane-d4 (Surrogate)	112	*	60 - 140						
Toluene-d8 (Surrogate)	66	*	58 - 140						

Lab Sample ID: 720-60070-1 MSD

Matrix: Solid

Analysis Batch: 167762

Client Sample ID: SLUDGE BED #12 WEST

Prep Type: Total/NA

Prep Batch: 167771

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD
	Result	Qualifier	Added	Result	Qualifier					
Methyl tert-butyl ether	ND *		49.0	90.9	* F1	ug/Kg	186	69 - 130	14	20
Acetone	1000	*	245	2290	E * 4	ug/Kg	523	37 - 150	11	20
Benzene	ND *		49.0	46.5	*	ug/Kg	95	70 - 130	9	20
Dichlorobromomethane	ND *		49.0	37.4	*	ug/Kg	76	64 - 135	12	20
Bromobenzene	ND *		49.0	77.5	* F1	ug/Kg	158	70 - 130	11	20
Chlorobromomethane	ND *		49.0	62.4	*	ug/Kg	127	65 - 130	17	20
Bromoform	ND *		49.0	43.0	*	ug/Kg	88	58 - 132	13	20
Bromomethane	ND *		49.0	83.4	* F1	ug/Kg	170	56 - 130	9	20
2-Butanone (MEK)	130	*	245	865	* F1	ug/Kg	301	41 - 150	19	20
n-Butylbenzene	ND *		49.0	45.7	*	ug/Kg	93	60 - 145	8	20
sec-Butylbenzene	ND *		49.0	63.9	*	ug/Kg	130	64 - 137	9	20
tert-Butylbenzene	ND *		49.0	69.0	* F1	ug/Kg	141	63 - 134	7	20
Carbon disulfide	ND *		49.0	54.8	*	ug/Kg	106	10 - 150	7	20
Carbon tetrachloride	ND *		49.0	45.9	*	ug/Kg	94	54 - 130	1	20
Chlorobenzene	ND *		49.0	45.9	*	ug/Kg	94	70 - 130	8	20
Chloroethane	ND *		49.0	92.1	* F1	ug/Kg	188	61 - 130	11	20
Chloroform	ND *		49.0	52.0	*	ug/Kg	106	67 - 130	11	20
Chloromethane	ND *		49.0	108	* F1	ug/Kg	220	50 - 131	12	20
2-Chlorotoluene	ND *		49.0	68.9	* F1	ug/Kg	141	70 - 130	4	20
4-Chlorotoluene	ND *		49.0	64.9	* F1	ug/Kg	132	70 - 130	3	20
Chlorodibromomethane	ND *		49.0	28.3	* F1	ug/Kg	58	60 - 141	14	20
1,2-Dichlorobenzene	ND *		49.0	44.0	*	ug/Kg	90	70 - 130	8	20
1,3-Dichlorobenzene	ND *		49.0	47.5	*	ug/Kg	97	70 - 130	6	20
1,4-Dichlorobenzene	ND *		49.0	46.1	*	ug/Kg	94	70 - 130	7	20
1,3-Dichloropropane	ND *		49.0	42.3	*	ug/Kg	86	70 - 130	16	20
1,1-Dichloropropene	ND *		49.0	51.9	*	ug/Kg	106	67 - 130	3	20
1,2-Dibromo-3-Chloropropane	ND *		49.0	87.2	* F1	ug/Kg	178	57 - 130	7	20
Ethylene Dibromide	ND *		49.0	39.3	*	ug/Kg	80	66 - 135	19	20
Dibromomethane	ND *		49.0	51.5	*	ug/Kg	105	65 - 131	16	20

TestAmerica Pleasanton

QC Sample Results

Client: City of San Leandro
Project/Site: WPCP San Leandro

TestAmerica Job ID: 720-60070-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 720-60070-1 MSD

Matrix: Solid

Analysis Batch: 167762

Client Sample ID: SLUDGE BED #12 WEST

Prep Type: Total/NA

Prep Batch: 167771

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Dichlorodifluoromethane	ND *		49.0	104	* F1	ug/Kg	212	38 - 130	13	20	
1,1-Dichloroethane	ND *		49.0	62.4	*	ug/Kg	127	67 - 130	9	20	
1,2-Dichloroethane	ND *		49.0	59.6	*	ug/Kg	122	70 - 130	17	20	
1,1-Dichloroethene	ND *		49.0	61.9	*	ug/Kg	126	64 - 130	5	20	
cis-1,2-Dichloroethene	ND *		49.0	54.2	*	ug/Kg	111	68 - 131	10	20	
trans-1,2-Dichloroethene	ND *		49.0	60.1	*	ug/Kg	123	70 - 130	5	20	
1,2-Dichloropropane	ND *		49.0	46.9	*	ug/Kg	96	65 - 133	14	20	
cis-1,3-Dichloropropene	ND *		49.0	39.4	*	ug/Kg	80	46 - 139	11	20	
trans-1,3-Dichloropropene	ND *		49.0	40.8	*	ug/Kg	83	55 - 131	12	20	
Ethylbenzene	ND *		49.0	45.5	*	ug/Kg	93	65 - 130	2	20	
Hexachlorobutadiene	ND *		49.0	24.9	* F1	ug/Kg	51	58 - 132	6	20	
2-Hexanone	ND *		245	496	* F1 F2	ug/Kg	198	44 - 150	21	20	
Isopropylbenzene	ND *		49.0	36.4	*	ug/Kg	74	65 - 130	3	20	
4-Isopropyltoluene	ND *		49.0	58.5	*	ug/Kg	112	69 - 134	4	20	
Methylene Chloride	ND *		49.0	67.4	* F1	ug/Kg	137	63 - 130	15	20	
4-Methyl-2-pentanone (MIBK)	ND *		245	549	* F1 F2	ug/Kg	224	51 - 140	23	20	
Naphthalene	ND *		49.0	26.7	*	ug/Kg	54	45 - 146	4	20	
N-Propylbenzene	ND *		49.0	76.8	* F1	ug/Kg	157	70 - 130	8	20	
Styrene	ND *		49.0	34.4	*	ug/Kg	70	58 - 135	8	20	
1,1,1,2-Tetrachloroethane	ND *		49.0	49.0	*	ug/Kg	100	64 - 133	10	20	
1,1,2,2-Tetrachloroethane	ND *		49.0	132	* F1	ug/Kg	270	70 - 131	14	20	
Tetrachloroethene	ND *		49.0	26.8	* F1	ug/Kg	55	67 - 130	2	20	
Toluene	ND *		49.0	64.4	*	ug/Kg	128	70 - 130	1	20	
1,2,3-Trichlorobenzene	ND *		49.0	18.8	* F1	ug/Kg	38	58 - 138	2	20	
1,2,4-Trichlorobenzene	ND *		49.0	18.7	* F1	ug/Kg	38	49 - 144	7	20	
1,1,1-Trichloroethane	ND *		49.0	51.0	*	ug/Kg	104	57 - 133	4	20	
1,1,2-Trichloroethane	ND *		49.0	39.4	*	ug/Kg	80	68 - 132	13	20	
Trichloroethene	ND *		49.0	39.8	*	ug/Kg	81	66 - 130	6	20	
Trichlorofluoromethane	ND *		49.0	74.7	* F1	ug/Kg	152	61 - 130	5	20	
1,2,3-Trichloropropane	ND *		49.0	182	* F1	ug/Kg	371	62 - 150	13	20	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND *		49.0	58.1	*	ug/Kg	118	52 - 130	7	20	
ne											
1,2,4-Trimethylbenzene	ND *		49.0	55.0	*	ug/Kg	112	64 - 140	3	20	
1,3,5-Trimethylbenzene	ND *		49.0	65.0	*	ug/Kg	133	67 - 134	1	20	
Vinyl acetate	ND *		49.0	ND	* F1	ug/Kg	0	52 - 150	NC	20	
Vinyl chloride	ND *		49.0	97.9	* F1	ug/Kg	200	62 - 130	10	20	
2,2-Dichloropropane	ND *		49.0	69.9	* F1	ug/Kg	143	63 - 130	17	20	

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene	63	*	45 - 131
1,2-Dichloroethane-d4 (Surr)	121	*	60 - 140
Toluene-d8 (Surr)	65	*	58 - 140

TestAmerica Pleasanton

QC Sample Results

Client: City of San Leandro
Project/Site: WPCP San Leandro

TestAmerica Job ID: 720-60070-1

Method: 8270C - Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Lab Sample ID: MB 720-167648/1-A

Matrix: Solid

Analysis Batch: 167680

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 167648

Analyte	MB	MB	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifer									
Phenol	ND		0.066			mg/Kg		09/25/14 17:10	09/26/14 14:05		1
Bis(2-chloroethyl)ether	ND		0.066			mg/Kg		09/25/14 17:10	09/26/14 14:05		1
2-Chlorophenol	ND		0.066			mg/Kg		09/25/14 17:10	09/26/14 14:05		1
1,3-Dichlorobenzene	ND		0.066			mg/Kg		09/25/14 17:10	09/26/14 14:05		1
1,4-Dichlorobenzene	ND		0.066			mg/Kg		09/25/14 17:10	09/26/14 14:05		1
Benzyl alcohol	ND		0.17			mg/Kg		09/25/14 17:10	09/26/14 14:05		1
1,2-Dichlorobenzene	ND		0.066			mg/Kg		09/25/14 17:10	09/26/14 14:05		1
2-Methylphenol	ND		0.066			mg/Kg		09/25/14 17:10	09/26/14 14:05		1
Methylphenol, 3 & 4	ND		0.066			mg/Kg		09/25/14 17:10	09/26/14 14:05		1
N-Nitrosodi-n-propylamine	ND		0.066			mg/Kg		09/25/14 17:10	09/26/14 14:05		1
Hexachloroethane	ND		0.066			mg/Kg		09/25/14 17:10	09/26/14 14:05		1
Nitrobenzene	ND		0.066			mg/Kg		09/25/14 17:10	09/26/14 14:05		1
Isophorone	ND		0.066			mg/Kg		09/25/14 17:10	09/26/14 14:05		1
2-Nitrophenol	ND		0.066			mg/Kg		09/25/14 17:10	09/26/14 14:05		1
2,4-Dimethylphenol	ND		0.066			mg/Kg		09/25/14 17:10	09/26/14 14:05		1
Bis(2-chloroethoxy)methane	ND		0.17			mg/Kg		09/25/14 17:10	09/26/14 14:05		1
2,4-Dichlorophenol	ND		0.33			mg/Kg		09/25/14 17:10	09/26/14 14:05		1
1,2,4-Trichlorobenzene	ND		0.066			mg/Kg		09/25/14 17:10	09/26/14 14:05		1
Naphthalene	ND		0.066			mg/Kg		09/25/14 17:10	09/26/14 14:05		1
4-Chloroaniline	ND		0.17			mg/Kg		09/25/14 17:10	09/26/14 14:05		1
Hexachlorobutadiene	ND		0.066			mg/Kg		09/25/14 17:10	09/26/14 14:05		1
4-Chloro-3-methylphenol	ND		0.17			mg/Kg		09/25/14 17:10	09/26/14 14:05		1
2-Methylnaphthalene	ND		0.066			mg/Kg		09/25/14 17:10	09/26/14 14:05		1
Hexachlorocyclopentadiene	ND		0.17			mg/Kg		09/25/14 17:10	09/26/14 14:05		1
2,4,6-Trichlorophenol	ND		0.17			mg/Kg		09/25/14 17:10	09/26/14 14:05		1
2,4,5-Trichlorophenol	ND		0.066			mg/Kg		09/25/14 17:10	09/26/14 14:05		1
2-Chloronaphthalene	ND		0.066			mg/Kg		09/25/14 17:10	09/26/14 14:05		1
2-Nitroaniline	ND		0.33			mg/Kg		09/25/14 17:10	09/26/14 14:05		1
Dimethyl phthalate	ND		0.17			mg/Kg		09/25/14 17:10	09/26/14 14:05		1
Acenaphthylene	ND		0.066			mg/Kg		09/25/14 17:10	09/26/14 14:05		1
3-Nitroaniline	ND		0.17			mg/Kg		09/25/14 17:10	09/26/14 14:05		1
Acenaphthene	ND		0.066			mg/Kg		09/25/14 17:10	09/26/14 14:05		1
2,4-Dinitrophenol	ND		0.65			mg/Kg		09/25/14 17:10	09/26/14 14:05		1
4-Nitrophenol	ND		0.33			mg/Kg		09/25/14 17:10	09/26/14 14:05		1
Dibenzofuran	ND		0.066			mg/Kg		09/25/14 17:10	09/26/14 14:05		1
2,4-Dinitrotoluene	ND		0.066			mg/Kg		09/25/14 17:10	09/26/14 14:05		1
2,6-Dinitrotoluene	ND		0.066			mg/Kg		09/25/14 17:10	09/26/14 14:05		1
Diethyl phthalate	ND		0.17			mg/Kg		09/25/14 17:10	09/26/14 14:05		1
4-Chlorophenyl phenyl ether	ND		0.17			mg/Kg		09/25/14 17:10	09/26/14 14:05		1
Fluorene	ND		0.066			mg/Kg		09/25/14 17:10	09/26/14 14:05		1
4-Nitroaniline	ND		0.33			mg/Kg		09/25/14 17:10	09/26/14 14:05		1
2-Methyl-4,6-dinitrophenol	ND		0.33			mg/Kg		09/25/14 17:10	09/26/14 14:05		1
N-Nitrosodiphenylamine	ND		0.066			mg/Kg		09/25/14 17:10	09/26/14 14:05		1
4-Bromophenyl phenyl ether	ND		0.17			mg/Kg		09/25/14 17:10	09/26/14 14:05		1
Hexachlorobenzene	ND		0.066			mg/Kg		09/25/14 17:10	09/26/14 14:05		1
Pentachlorophenol	ND		0.33			mg/Kg		09/25/14 17:10	09/26/14 14:05		1
Phenanthrene	ND		0.066			mg/Kg		09/25/14 17:10	09/26/14 14:05		1
Anthracene	ND		0.066			mg/Kg		09/25/14 17:10	09/26/14 14:05		1

TestAmerica Pleasanton

QC Sample Results

Client: City of San Leandro
Project/Site: WPCP San Leandro

TestAmerica Job ID: 720-60070-1

Method: 8270C - Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS) (Continued)

Lab Sample ID: MB 720-167648/1-A

Matrix: Solid

Analysis Batch: 167680

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 167648

Analyte	MB	MB	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	MB	MB									
Di-n-butyl phthalate	ND	ND			0.17		mg/Kg		09/25/14 17:10	09/26/14 14:05	1
Fluoranthene	ND	ND			0.066		mg/Kg		09/25/14 17:10	09/26/14 14:05	1
Pyrene	ND	ND			0.066		mg/Kg		09/25/14 17:10	09/26/14 14:05	1
Butyl benzyl phthalate	ND	ND			0.17		mg/Kg		09/25/14 17:10	09/26/14 14:05	1
3,3'-Dichlorobenzidine	ND	ND			0.17		mg/Kg		09/25/14 17:10	09/26/14 14:05	1
Benzo[a]anthracene	ND	ND			0.33		mg/Kg		09/25/14 17:10	09/26/14 14:05	1
Bis(2-ethylhexyl) phthalate	ND	ND			0.33		mg/Kg		09/25/14 17:10	09/26/14 14:05	1
Chrysene	ND	ND			0.066		mg/Kg		09/25/14 17:10	09/26/14 14:05	1
Di-n-octyl phthalate	ND	ND			0.17		mg/Kg		09/25/14 17:10	09/26/14 14:05	1
Benzo[b]fluoranthene	ND	ND			0.066		mg/Kg		09/25/14 17:10	09/26/14 14:05	1
Benzo[a]pyrene	ND	ND			0.066		mg/Kg		09/25/14 17:10	09/26/14 14:05	1
Benzo[k]fluoranthene	ND	ND			0.066		mg/Kg		09/25/14 17:10	09/26/14 14:05	1
Indeno[1,2,3-cd]pyrene	ND	ND			0.066		mg/Kg		09/25/14 17:10	09/26/14 14:05	1
Benzo[g,h,i]perylene	ND	ND			0.066		mg/Kg		09/25/14 17:10	09/26/14 14:05	1
Benzoic acid	ND	ND			0.33		mg/Kg		09/25/14 17:10	09/26/14 14:05	1
Azobenzene	ND	ND			0.066		mg/Kg		09/25/14 17:10	09/26/14 14:05	1
Dibenz(a,h)anthracene	ND	ND			0.066		mg/Kg		09/25/14 17:10	09/26/14 14:05	1
Surrogate	MB	MB	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
	MB	MB									
Nitrobenzene-d5	71	71	21 - 98					09/25/14 17:10	09/26/14 14:05	1	
2-Fluorobiphenyl	75	75	30 - 112					09/25/14 17:10	09/26/14 14:05	1	
Terphenyl-d14	90	90	32 - 117					09/25/14 17:10	09/26/14 14:05	1	
2-Fluorophenol	61	61	28 - 98					09/25/14 17:10	09/26/14 14:05	1	
Phenol-d5	61	61	23 - 101					09/25/14 17:10	09/26/14 14:05	1	
2,4,6-Tribromophenol	82	82	37 - 114					09/25/14 17:10	09/26/14 14:05	1	

Lab Sample ID: LCS 720-167648/2-A

Matrix: Solid

Analysis Batch: 167680

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 167648

Analyte	Spike Added	MB	MB	LCS Result	LCS Qualifier	MB	MB	D	%Rec	MB	MB
		MB	MB	MB	MB	MB	MB	MB	MB	MB	MB
Phenol	1.32	1.32	0.882			mg/Kg		67	48 - 115		
Bis(2-chloroethyl)ether	1.32	1.32	0.801			mg/Kg		61	45 - 115		
2-Chlorophenol	1.32	1.32	0.948			mg/Kg		72	48 - 115		
1,3-Dichlorobenzene	1.32	1.32	0.844			mg/Kg		64	41 - 115		
1,4-Dichlorobenzene	1.32	1.32	0.867			mg/Kg		65	40 - 115		
Benzyl alcohol	1.32	1.32	0.964			mg/Kg		73	51 - 115		
1,2-Dichlorobenzene	1.32	1.32	0.901			mg/Kg		68	44 - 115		
2-Methylphenol	1.32	1.32	0.957			mg/Kg		72	54 - 115		
Methylphenol, 3 & 4	1.32	1.32	0.985			mg/Kg		74	42 - 115		
N-Nitrosodi-n-propylamine	1.32	1.32	0.912			mg/Kg		69	46 - 115		
Hexachloroethane	1.32	1.32	0.879			mg/Kg		66	44 - 115		
Nitrobenzene	1.32	1.32	0.962			mg/Kg		73	48 - 115		
Isophorone	1.32	1.32	0.945			mg/Kg		71	54 - 115		
2-Nitrophenol	1.32	1.32	0.997			mg/Kg		75	48 - 115		
2,4-Dimethylphenol	1.32	1.32	0.995			mg/Kg		75	52 - 115		
Bis(2-chloroethoxy)methane	1.32	1.32	0.920			mg/Kg		69	46 - 115		

TestAmerica Pleasanton

QC Sample Results

Client: City of San Leandro
Project/Site: WPCP San Leandro

TestAmerica Job ID: 720-60070-1

Method: 8270C - Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS) (Continued)

Lab Sample ID: LCS 720-167648/2-A

Matrix: Solid

Analysis Batch: 167680

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 167648

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits	%Rec.
2,4-Dichlorophenol	1.32	1.02		mg/Kg	77	49 - 100		
1,2,4-Trichlorobenzene	1.32	0.966		mg/Kg	73	47 - 115		
Naphthalene	1.32	0.958		mg/Kg	72	44 - 115		
4-Chloroaniline	1.32	0.818		mg/Kg	62	30 - 115		
Hexachlorobutadiene	1.32	1.01		mg/Kg	76	44 - 115		
4-Chloro-3-methylphenol	1.32	1.04		mg/Kg	78	58 - 115		
2-Methylnaphthalene	1.32	0.960		mg/Kg	72	49 - 115		
Hexachlorocyclopentadiene	1.32	1.10		mg/Kg	83	42 - 132		
2,4,6-Trichlorophenol	1.32	1.11		mg/Kg	84	45 - 115		
2,4,5-Trichlorophenol	1.32	1.11		mg/Kg	84	48 - 115		
2-Chloronaphthalene	1.32	0.990		mg/Kg	75	52 - 115		
2-Nitroaniline	1.32	1.05		mg/Kg	79	54 - 115		
Dimethyl phthalate	1.32	1.06		mg/Kg	80	64 - 119		
Acenaphthylene	1.32	0.986		mg/Kg	74	61 - 129		
3-Nitroaniline	1.32	0.863		mg/Kg	65	50 - 115		
Acenaphthene	1.32	0.984		mg/Kg	74	50 - 115		
2,4-Dinitrophenol	2.65	1.20		mg/Kg	45	15 - 115		
4-Nitrophenol	2.65	2.40		mg/Kg	91	54 - 125		
Dibenzofuran	1.32	1.03		mg/Kg	77	55 - 115		
2,4-Dinitrotoluene	1.32	1.11		mg/Kg	84	57 - 115		
2,6-Dinitrotoluene	1.32	1.07		mg/Kg	81	54 - 119		
Diethyl phthalate	1.32	1.01		mg/Kg	76	49 - 117		
4-Chlorophenyl phenyl ether	1.32	1.06		mg/Kg	80	57 - 115		
Fluorene	1.32	1.05		mg/Kg	79	54 - 115		
4-Nitroaniline	1.32	1.07		mg/Kg	81	59 - 115		
2-Methyl-4,6-dinitrophenol	2.65	1.88		mg/Kg	71	39 - 115		
N-Nitrosodiphenylamine	1.32	1.08		mg/Kg	82	56 - 115		
4-Bromophenyl phenyl ether	1.32	1.09		mg/Kg	83	53 - 115		
Hexachlorobenzene	1.32	1.14		mg/Kg	86	55 - 115		
Pentachlorophenol	2.65	2.12		mg/Kg	80	35 - 115		
Phenanthrene	1.32	1.07		mg/Kg	81	54 - 115		
Anthracene	1.32	1.07		mg/Kg	81	55 - 115		
Di-n-butyl phthalate	1.32	1.17		mg/Kg	88	55 - 115		
Fluoranthene	1.32	1.18		mg/Kg	89	52 - 130		
Pyrene	1.32	1.22		mg/Kg	92	48 - 115		
Butyl benzyl phthalate	1.32	1.18		mg/Kg	89	53 - 115		
3,3'-Dichlorobenzidine	1.32	1.06		mg/Kg	80	42 - 115		
Benzo[a]anthracene	1.32	1.18		mg/Kg	89	55 - 115		
Bis(2-ethylhexyl) phthalate	1.32	1.19		mg/Kg	90	53 - 115		
Chrysene	1.32	1.16		mg/Kg	88	58 - 115		
Di-n-octyl phthalate	1.32	1.13		mg/Kg	86	53 - 115		
Benzo[b]fluoranthene	1.32	1.19		mg/Kg	90	50 - 119		
Benzo[a]pyrene	1.32	1.22		mg/Kg	92	57 - 122		
Benzo[k]fluoranthene	1.32	1.28		mg/Kg	97	55 - 120		
Indeno[1,2,3-cd]pyrene	1.32	1.21		mg/Kg	91	56 - 115		
Benzo[g,h,i]perylene	1.32	1.22		mg/Kg	92	56 - 115		
Benzoic acid	1.32	0.812		mg/Kg	61	10 - 115		

TestAmerica Pleasanton

QC Sample Results

Client: City of San Leandro
Project/Site: WPCP San Leandro

TestAmerica Job ID: 720-60070-1

Method: 8270C - Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS) (Continued)

Lab Sample ID: LCS 720-167648/2-A

Matrix: Solid

Analysis Batch: 167680

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 167648

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec.
	Added	Result	Qualifier				
Azobenzene	1.32	0.931		mg/Kg	70	52 - 115	
Dibenz(a,h)anthracene	1.32	1.21		mg/Kg	92	57 - 121	

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
Nitrobenzene-d5	71		21 - 98
2-Fluorobiphenyl	80		30 - 112
Terphenyl-d14	99		32 - 117
2-Fluorophenol	68		28 - 98
Phenol-d5	70		23 - 101
2,4,6-Tribromophenol	97		37 - 114

Lab Sample ID: LCSD 720-167648/3-A

Matrix: Solid

Analysis Batch: 167680

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 167648

Analyte	Spike	LCSD	LCSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Added	Result	Qualifier						
Phenol	1.33	0.948		mg/Kg	71	48 - 115		7	35
Bis(2-chloroethyl)ether	1.33	0.832		mg/Kg	63	45 - 115		4	35
2-Chlorophenol	1.33	0.985		mg/Kg	74	48 - 115		4	35
1,3-Dichlorobenzene	1.33	0.899		mg/Kg	68	41 - 115		6	35
1,4-Dichlorobenzene	1.33	0.907		mg/Kg	68	40 - 115		5	35
Benzyl alcohol	1.33	0.987		mg/Kg	74	51 - 115		2	35
1,2-Dichlorobenzene	1.33	0.933		mg/Kg	70	44 - 115		3	35
2-Methylphenol	1.33	1.00		mg/Kg	75	54 - 115		4	35
Methylphenol, 3 & 4	1.33	0.997		mg/Kg	75	42 - 115		1	35
N-Nitrosodi-n-propylamine	1.33	0.919		mg/Kg	69	46 - 115		1	35
Hexachloroethane	1.33	0.936		mg/Kg	70	44 - 115		6	35
Nitrobenzene	1.33	0.964		mg/Kg	72	48 - 115		0	35
Isophorone	1.33	0.950		mg/Kg	71	54 - 115		1	35
2-Nitrophenol	1.33	0.995		mg/Kg	75	48 - 115		0	35
2,4-Dimethylphenol	1.33	0.980		mg/Kg	74	52 - 115		2	35
Bis(2-chloroethoxy)methane	1.33	0.960		mg/Kg	72	46 - 115		4	35
2,4-Dichlorophenol	1.33	1.04		mg/Kg	78	49 - 100		2	35
1,2,4-Trichlorobenzene	1.33	1.00		mg/Kg	75	47 - 115		4	35
Naphthalene	1.33	1.00		mg/Kg	75	44 - 115		5	35
4-Chloroaniline	1.33	0.816		mg/Kg	61	30 - 115		0	35
Hexachlorobutadiene	1.33	1.05		mg/Kg	79	44 - 115		4	35
4-Chloro-3-methylphenol	1.33	1.08		mg/Kg	81	58 - 115		4	35
2-Methylnaphthalene	1.33	1.02		mg/Kg	77	49 - 115		6	35
Hexachlorocyclopentadiene	1.33	1.10		mg/Kg	82	42 - 132		1	35
2,4,6-Trichlorophenol	1.33	1.10		mg/Kg	83	45 - 115		1	35
2,4,5-Trichlorophenol	1.33	1.12		mg/Kg	84	48 - 115		1	35
2-Chloronaphthalene	1.33	0.973		mg/Kg	73	52 - 115		2	35
2-Nitroaniline	1.33	1.05		mg/Kg	79	54 - 115		0	35
Dimethyl phthalate	1.33	1.09		mg/Kg	82	64 - 119		3	35
Acenaphthylene	1.33	1.00		mg/Kg	76	61 - 129		2	35
3-Nitroaniline	1.33	0.870		mg/Kg	65	50 - 115		1	35

TestAmerica Pleasanton

QC Sample Results

Client: City of San Leandro
Project/Site: WPCP San Leandro

TestAmerica Job ID: 720-60070-1

Method: 8270C - Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS) (Continued)

Lab Sample ID: LCSD 720-167648/3-A

Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 167680

Prep Batch: 167648

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	Limits	RPD	RPD Limit
Acenaphthene	1.33	1.01		mg/Kg	76	50 - 115	3	35	
2,4-Dinitrophenol	2.66	1.22		mg/Kg	46	15 - 115	2	35	
4-Nitrophenol	2.66	2.33		mg/Kg	88	54 - 125	3	35	
Dibenzofuran	1.33	1.04		mg/Kg	79	55 - 115	2	35	
2,4-Dinitrotoluene	1.33	1.13		mg/Kg	85	57 - 115	2	35	
2,6-Dinitrotoluene	1.33	1.12		mg/Kg	84	54 - 119	4	35	
Diethyl phthalate	1.33	1.02		mg/Kg	77	49 - 117	2	35	
4-Chlorophenyl phenyl ether	1.33	1.09		mg/Kg	82	57 - 115	2	35	
Fluorene	1.33	1.06		mg/Kg	80	54 - 115	1	35	
4-Nitroaniline	1.33	1.06		mg/Kg	80	59 - 115	1	35	
2-Methyl-4,6-dinitrophenol	2.66	1.85		mg/Kg	70	39 - 115	2	35	
N-Nitrosodiphenylamine	1.33	1.09		mg/Kg	82	56 - 115	0	35	
4-Bromophenyl phenyl ether	1.33	1.13		mg/Kg	85	53 - 115	3	35	
Hexachlorobenzene	1.33	1.14		mg/Kg	86	55 - 115	0	35	
Pentachlorophenol	2.66	2.09		mg/Kg	79	35 - 115	1	35	
Phenanthrene	1.33	1.08		mg/Kg	81	54 - 115	0	35	
Anthracene	1.33	1.08		mg/Kg	81	55 - 115	1	35	
Di-n-butyl phthalate	1.33	1.14		mg/Kg	86	55 - 115	2	35	
Fluoranthene	1.33	1.17		mg/Kg	88	52 - 130	1	35	
Pyrene	1.33	1.19		mg/Kg	89	48 - 115	3	35	
Butyl benzyl phthalate	1.33	1.16		mg/Kg	87	53 - 115	2	35	
3,3'-Dichlorobenzidine	1.33	1.03		mg/Kg	77	42 - 115	3	35	
Benzo[a]anthracene	1.33	1.17		mg/Kg	88	55 - 115	1	35	
Bis(2-ethylhexyl) phthalate	1.33	1.16		mg/Kg	88	53 - 115	3	35	
Chrysene	1.33	1.14		mg/Kg	86	58 - 115	2	35	
Di-n-octyl phthalate	1.33	1.11		mg/Kg	84	53 - 115	2	35	
Benzo[b]fluoranthene	1.33	1.28		mg/Kg	96	50 - 119	7	35	
Benzo[a]pyrene	1.33	1.21		mg/Kg	91	57 - 122	1	35	
Benzo[k]fluoranthene	1.33	1.17		mg/Kg	88	55 - 120	9	35	
Indeno[1,2,3-cd]pyrene	1.33	1.21		mg/Kg	91	56 - 115	0	35	
Benzo[g,h,i]perylene	1.33	1.22		mg/Kg	92	56 - 115	0	35	
Benzoic acid	1.33	0.820		mg/Kg	62	10 - 115	1	35	
Azobenzene	1.33	0.942		mg/Kg	71	52 - 115	1	35	
Dibenzo(a,h)anthracene	1.33	1.21		mg/Kg	91	57 - 121	1	35	

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Nitrobenzene-d5	69		21 - 98
2-Fluorobiphenyl	81		30 - 112
Terphenyl-d14	96		32 - 117
2-Fluorophenol	73		28 - 98
Phenol-d5	73		23 - 101
2,4,6-Tribromophenol	99		37 - 114

TestAmerica Pleasanton

QC Sample Results

Client: City of San Leandro
Project/Site: WPCP San Leandro

TestAmerica Job ID: 720-60070-1

Method: 8081A - Organochlorine Pesticides (GC)

Lab Sample ID: MB 280-244923/1-A

Matrix: Solid

Analysis Batch: 245758

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 244923

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
4,4'-DDD	ND		1.7	0.54	ug/Kg		09/25/14 17:50	10/02/14 03:30	1
4,4'-DDE	ND		1.7	0.23	ug/Kg		09/25/14 17:50	10/02/14 03:30	1
4,4'-DDT	ND		1.7	0.58	ug/Kg		09/25/14 17:50	10/02/14 03:30	1
Aldrin	ND		1.7	0.25	ug/Kg		09/25/14 17:50	10/02/14 03:30	1
alpha-BHC	ND		1.7	0.21	ug/Kg		09/25/14 17:50	10/02/14 03:30	1
alpha-Chlordane	ND		1.7	0.32	ug/Kg		09/25/14 17:50	10/02/14 03:30	1
beta-BHC	ND		1.7	0.65	ug/Kg		09/25/14 17:50	10/02/14 03:30	1
delta-BHC	ND		1.7	0.39	ug/Kg		09/25/14 17:50	10/02/14 03:30	1
Dieldrin	ND		1.7	0.21	ug/Kg		09/25/14 17:50	10/02/14 03:30	1
Endosulfan I	ND		1.7	0.17	ug/Kg		09/25/14 17:50	10/02/14 03:30	1
Endosulfan II	ND		1.7	0.28	ug/Kg		09/25/14 17:50	10/02/14 03:30	1
Endosulfan sulfate	ND		1.7	0.27	ug/Kg		09/25/14 17:50	10/02/14 03:30	1
Endrin	ND		1.7	0.30	ug/Kg		09/25/14 17:50	10/02/14 03:30	1
Endrin aldehyde	ND		1.7	0.17	ug/Kg		09/25/14 17:50	10/02/14 03:30	1
Endrin ketone	ND		1.7	0.48	ug/Kg		09/25/14 17:50	10/02/14 03:30	1
gamma-BHC (Lindane)	ND		1.7	0.46	ug/Kg		09/25/14 17:50	10/02/14 03:30	1
gamma-Chlordane	ND		1.7	0.26	ug/Kg		09/25/14 17:50	10/02/14 03:30	1
Heptachlor	ND		1.7	0.21	ug/Kg		09/25/14 17:50	10/02/14 03:30	1
Heptachlor epoxide	ND		1.7	0.42	ug/Kg		09/25/14 17:50	10/02/14 03:30	1
Kepone	ND		74	25	ug/Kg		09/25/14 17:50	10/02/14 03:30	1
Methoxychlor	ND		3.2	0.44	ug/Kg		09/25/14 17:50	10/02/14 03:30	1
Toxaphene	ND		66	16	ug/Kg		09/25/14 17:50	10/02/14 03:30	1
Mirex	ND		1.7	0.26	ug/Kg		09/25/14 17:50	10/02/14 03:30	1
Technical Chlordane	ND		25	7.7	ug/Kg		09/25/14 17:50	10/02/14 03:30	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
DCB Decachlorobiphenyl	88		63 - 124	09/25/14 17:50	10/02/14 03:30	1
Tetrachloro-m-xylene	87		59 - 115	09/25/14 17:50	10/02/14 03:30	1

Lab Sample ID: LCS 280-244923/2-A

Matrix: Solid

Analysis Batch: 245758

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 244923

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	Limits
		Result	Qualifier				
4,4'-DDD	15.5	15.7		ug/Kg		101	69 - 126
4,4'-DDE	15.5	14.8		ug/Kg		96	71 - 116
4,4'-DDT	15.5	15.0		ug/Kg		97	67 - 132
Aldrin	15.5	14.1		ug/Kg		91	69 - 116
alpha-BHC	15.5	14.2		ug/Kg		91	65 - 122
alpha-Chlordane	15.5	14.3		ug/Kg		92	71 - 118
beta-BHC	15.5	12.5		ug/Kg		80	62 - 121
delta-BHC	15.5	14.5		ug/Kg		93	67 - 122
Dieldrin	15.5	14.6		ug/Kg		94	71 - 120
Endosulfan I	15.5	13.6		ug/Kg		88	67 - 115
Endosulfan II	15.5	13.9		ug/Kg		90	69 - 120
Endosulfan sulfate	15.5	14.5		ug/Kg		93	69 - 126
Endrin	15.5	14.5		ug/Kg		93	69 - 129
Endrin aldehyde	15.5	12.2		ug/Kg		78	41 - 128

TestAmerica Pleasanton

QC Sample Results

Client: City of San Leandro
Project/Site: WPCP San Leandro

TestAmerica Job ID: 720-60070-1

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 280-244923/2-A

Matrix: Solid

Analysis Batch: 245758

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 244923

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec.	Limits
Endrin ketone	15.5	14.6		ug/Kg		94	70 - 125
gamma-BHC (Lindane)	15.5	14.1		ug/Kg		91	66 - 120
gamma-Chlordane	15.5	14.5		ug/Kg		93	69 - 122
Heptachlor	15.5	14.3		ug/Kg		92	61 - 126
Heptachlor epoxide	15.5	14.5		ug/Kg		93	71 - 119
Methoxychlor	15.5	15.2		ug/Kg		98	65 - 139
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Surrogate	LCS %Recovery	LCS Qualifier	Limits				
DCB Decachlorobiphenyl	94		63 - 124				
Tetrachloro-m-xylene	90		59 - 115				

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 720-167879/1-A

Matrix: Solid

Analysis Batch: 167941

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 167879

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		50		ug/Kg		09/30/14 11:53	10/01/14 10:12	1
PCB-1221	ND		50		ug/Kg		09/30/14 11:53	10/01/14 10:12	1
PCB-1232	ND		50		ug/Kg		09/30/14 11:53	10/01/14 10:12	1
PCB-1242	ND		50		ug/Kg		09/30/14 11:53	10/01/14 10:12	1
PCB-1248	ND		50		ug/Kg		09/30/14 11:53	10/01/14 10:12	1
PCB-1254	ND		50		ug/Kg		09/30/14 11:53	10/01/14 10:12	1
PCB-1260	ND		50		ug/Kg		09/30/14 11:53	10/01/14 10:12	1
<hr/>									
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac	
Tetrachloro-m-xylene	73		45 - 132			09/30/14 11:53	10/01/14 10:12	1	
DCB Decachlorobiphenyl	79		42 - 146			09/30/14 11:53	10/01/14 10:12	1	

Lab Sample ID: LCS 720-167879/2-A

Matrix: Solid

Analysis Batch: 167941

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 167879

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec.	Limits
PCB-1016	131	96.8		ug/Kg		74	65 - 121
PCB-1260	131	107		ug/Kg		82	68 - 127
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Surrogate	LCS %Recovery	LCS Qualifier	Limits				
Tetrachloro-m-xylene	74		45 - 132				
DCB Decachlorobiphenyl	84		42 - 146				

TestAmerica Pleasanton

QC Sample Results

Client: City of San Leandro
Project/Site: WPCP San Leandro

TestAmerica Job ID: 720-60070-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: LCSD 720-167879/3-A			Client Sample ID: Lab Control Sample Dup							
Matrix: Solid			Prep Type: Total/NA							
Analysis Batch: 167941			Prep Batch: 167879							
Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec.	Limits	RPD	RPD	Limit
PCB-1016	133	96.4		ug/Kg	73	65 - 121	0	20		
PCB-1260	133	105		ug/Kg	79	68 - 127	1	20		
Surrogate		LCSD %Recovery	LCSD Qualifier	Limits						
Tetrachloro-m-xylene		73		45 - 132						
DCB Decachlorobiphenyl		81		42 - 146						

Method: 8141A - Organophosphorous Pesticides (GC)

Lab Sample ID: MB 180-120084/1-A			Client Sample ID: Method Blank							
Matrix: Solid			Prep Type: Total/NA							
Analysis Batch: 120217			Prep Batch: 120084							
Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Azinphos-methyl	ND		33		ug/Kg	10/02/14 09:20	10/03/14 09:59		1	
Bolstar	ND		33		ug/Kg	10/02/14 09:20	10/03/14 09:59		1	
Chlorpyrifos	ND		33		ug/Kg	10/02/14 09:20	10/03/14 09:59		1	
Coumaphos	ND		33		ug/Kg	10/02/14 09:20	10/03/14 09:59		1	
Demeton, Total	ND		66		ug/Kg	10/02/14 09:20	10/03/14 09:59		1	
Demeton-O	ND		33		ug/Kg	10/02/14 09:20	10/03/14 09:59		1	
Demeton-S	ND		33		ug/Kg	10/02/14 09:20	10/03/14 09:59		1	
Diazinon	ND		33		ug/Kg	10/02/14 09:20	10/03/14 09:59		1	
Dichlorvos	ND		33		ug/Kg	10/02/14 09:20	10/03/14 09:59		1	
Dimethoate	ND		33		ug/Kg	10/02/14 09:20	10/03/14 09:59		1	
Disulfoton	ND		33		ug/Kg	10/02/14 09:20	10/03/14 09:59		1	
EPN	ND		33		ug/Kg	10/02/14 09:20	10/03/14 09:59		1	
Famphur	ND		33		ug/Kg	10/02/14 09:20	10/03/14 09:59		1	
Fensulfothion	ND		33		ug/Kg	10/02/14 09:20	10/03/14 09:59		1	
Fenthion	ND		33		ug/Kg	10/02/14 09:20	10/03/14 09:59		1	
Malathion	ND		33		ug/Kg	10/02/14 09:20	10/03/14 09:59		1	
Methyl parathion	ND		33		ug/Kg	10/02/14 09:20	10/03/14 09:59		1	
Mevinphos	ND		33		ug/Kg	10/02/14 09:20	10/03/14 09:59		1	
O,O,O-Triethyl phosphorothioate	ND		33		ug/Kg	10/02/14 09:20	10/03/14 09:59		1	
Parathion	ND		33		ug/Kg	10/02/14 09:20	10/03/14 09:59		1	
Phorate	ND		33		ug/Kg	10/02/14 09:20	10/03/14 09:59		1	
Ronnel	ND		33		ug/Kg	10/02/14 09:20	10/03/14 09:59		1	
Stirophos	ND		33		ug/Kg	10/02/14 09:20	10/03/14 09:59		1	
Sulfotep	ND		33		ug/Kg	10/02/14 09:20	10/03/14 09:59		1	
Tokuthion	ND		33		ug/Kg	10/02/14 09:20	10/03/14 09:59		1	
Trichloronate	ND		33		ug/Kg	10/02/14 09:20	10/03/14 09:59		1	
Mocap	ND		33		ug/Kg	10/02/14 09:20	10/03/14 09:59		1	
Thionazin	ND		33		ug/Kg	10/02/14 09:20	10/03/14 09:59		1	
Surrogate		MB %Recovery	MB Qualifier	Limits		Prepared	Analyzed	Dil Fac		
Triphenylphosphate		91		55 - 125		10/02/14 09:20	10/03/14 09:59		1	
Tributyl phosphate		70		47 - 130		10/02/14 09:20	10/03/14 09:59		1	

TestAmerica Pleasanton

QC Sample Results

Client: City of San Leandro
Project/Site: WPCP San Leandro

TestAmerica Job ID: 720-60070-1

Method: 8141A - Organophosphorous Pesticides (GC) (Continued)

Lab Sample ID: LCS 180-120084/2-A

Matrix: Solid

Analysis Batch: 120217

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 120084

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.	Limits
Azinphos-methyl	333	322		ug/Kg		97	40 - 150	
Bolstar	333	305		ug/Kg		91	10 - 150	
Chlorpyrifos	333	285		ug/Kg		86	50 - 130	
Coumaphos	333	324		ug/Kg		97	10 - 150	
Demeton-O	657	439	E	ug/Kg		67		
Demeton-S	343	373		ug/Kg		109		
Diazinon	333	286		ug/Kg		86	50 - 150	
Dichlorvos	333	260		ug/Kg		78	10 - 150	
Dimethoate	333	251		ug/Kg		75	40 - 143	
Disulfoton	333	315		ug/Kg		94	31 - 136	
EPN	333	324		ug/Kg		97	10 - 150	
Famphur	333	285		ug/Kg		86	54 - 137	
Fensulfothion	333	294		ug/Kg		88	10 - 150	
Fenthion	333	282		ug/Kg		85	10 - 150	
Malathion	333	279		ug/Kg		84	50 - 135	
Methyl parathion	333	284		ug/Kg		85	43 - 146	
Mevinphos	333	244		ug/Kg		73	10 - 150	
O,O,O-Triethyl phosphorothioate	333	285		ug/Kg		85	45 - 130	
Parathion	333	275		ug/Kg		83	52 - 133	
Phorate	333	289		ug/Kg		87	41 - 143	
Ronnel	333	287		ug/Kg		86	10 - 150	
Stirophos	333	297		ug/Kg		89	10 - 150	
Sulfotep	333	289		ug/Kg		87	48 - 126	
Tokuthion	333	293		ug/Kg		88	10 - 150	
Trichloronate	333	299		ug/Kg		90	10 - 150	
Mocap	333	288		ug/Kg		86	10 - 150	
Thionazin	333	303		ug/Kg		91	48 - 126	
<hr/>								
Surrogate	LCS %Recovery	LCS Qualifier	Limits					
Triphenylphosphate	105		55 - 125					
Tributyl phosphate	92		47 - 130					

Method: 8151A - Herbicides (GC)

Lab Sample ID: MB 180-119598/1-A

Matrix: Solid

Analysis Batch: 120276

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 119598

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		20		ug/Kg		09/29/14 09:24	10/03/14 13:01	20
2,4-D	ND		80		ug/Kg		09/29/14 09:24	10/03/14 13:01	20
Silvex (2,4,5-TP)	ND		20		ug/Kg		09/29/14 09:24	10/03/14 13:01	20
Dalapon	ND		90		ug/Kg		09/29/14 09:24	10/03/14 13:01	20
2,4-DB	ND		80		ug/Kg		09/29/14 09:24	10/03/14 13:01	20
Dicamba	ND		40		ug/Kg		09/29/14 09:24	10/03/14 13:01	20
Dichlorprop	ND		80		ug/Kg		09/29/14 09:24	10/03/14 13:01	20
Dinoseb	ND		12		ug/Kg		09/29/14 09:24	10/03/14 13:01	20

TestAmerica Pleasanton

QC Sample Results

Client: City of San Leandro
Project/Site: WPCP San Leandro

TestAmerica Job ID: 720-60070-1

Method: 8151A - Herbicides (GC) (Continued)

Lab Sample ID: MB 180-119598/1-A

Matrix: Solid

Analysis Batch: 120276

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 119598

Analyte	MB	MB	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier									
MCPP	ND		8000		8000		ug/Kg		09/29/14 09:24	10/03/14 13:01	20
Pentachlorophenol	ND		11				ug/Kg		09/29/14 09:24	10/03/14 13:01	20
MCPP	ND		8000		8000		ug/Kg		09/29/14 09:24	10/03/14 13:01	20
Surrogate	MB	MB	%Recovery	Qualifier	Limits			D	Prepared	Analyzed	Dil Fac
	Result	Qualifier									
DCAA	84				42 - 140				09/29/14 09:24	10/03/14 13:01	20

Lab Sample ID: LCS 180-119598/2-A

Matrix: Solid

Analysis Batch: 120276

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 119598

Analyte	Spike	LCS	LCS	Result	Qualifier	Unit	D	%Rec	Limits		
	Added	Result	Qualifier								
2,4,5-T	160	101				ug/Kg		63	30 - 140		
2,4-D	160	103				ug/Kg		64	30 - 140		
Silvex (2,4,5-TP)	160	125				ug/Kg		78	40 - 130		
Dalapon	160	139				ug/Kg		87	36 - 120		
2,4-DB	160	132				ug/Kg		83	34 - 140		
Dicamba	160	114				ug/Kg		71	50 - 140		
Dichlorprop	160	126				ug/Kg		79	50 - 130		
Dinoseb	160	76.7				ug/Kg		48	10 - 140		
MCPP	24000	17500				ug/Kg		73	50 - 120		
Pentachlorophenol	40.0	59.1	*			ug/Kg		148	60 - 140		
MCPP	24000	19300				ug/Kg		81	50 - 140		
Surrogate	LCS	LCS	%Recovery	Qualifier	Limits			%Rec.			
	Result	Qualifier									
DCAA	110				42 - 140						

Lab Sample ID: LCSD 180-119598/3-A

Matrix: Solid

Analysis Batch: 120276

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 119598

Analyte	Spike	LCSD	LCSD	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
	Added	Result	Qualifier								
2,4,5-T	160	92.2				ug/Kg		58	30 - 140	9	30
2,4-D	160	88.4				ug/Kg		55	30 - 140	15	30
Silvex (2,4,5-TP)	160	123				ug/Kg		77	40 - 130	2	30
Dalapon	160	109				ug/Kg		68	36 - 120	24	30
2,4-DB	160	112				ug/Kg		70	34 - 140	16	30
Dicamba	160	105				ug/Kg		65	50 - 140	8	30
Dichlorprop	160	124				ug/Kg		78	50 - 130	1	30
Dinoseb	160	56.8				ug/Kg		35	10 - 140	30	30
MCPP	24000	15800				ug/Kg		66	50 - 120	10	30
Pentachlorophenol	40.0	57.5	*			ug/Kg		144	60 - 140	3	30
MCPP	24000	19600				ug/Kg		82	50 - 140	1	30
Surrogate	LCSD	LCSD	%Recovery	Qualifier	Limits			%Rec.			
	Result	Qualifier									
DCAA	102				42 - 140						

TestAmerica Pleasanton

QC Sample Results

Client: City of San Leandro
Project/Site: WPCP San Leandro

TestAmerica Job ID: 720-60070-1

Method: 1613B - Dioxins and Furans (HRGC/HRMS)

Lab Sample ID: MB 320-53323/1-A

Matrix: Solid

Analysis Batch: 53798

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 53323

Analyte	MB MB		RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
2,3,7,8-TCDD	ND		1.0	pg/g		09/25/14 12:30	09/30/14 23:36		1
2,3,7,8-TCDF	ND		1.0	pg/g		09/25/14 12:30	09/30/14 23:36		1
1,2,3,7,8-PeCDD	ND		5.0	pg/g		09/25/14 12:30	09/30/14 23:36		1
1,2,3,7,8-PeCDF	ND		5.0	pg/g		09/25/14 12:30	09/30/14 23:36		1
2,3,4,7,8-PeCDF	ND		5.0	pg/g		09/25/14 12:30	09/30/14 23:36		1
1,2,3,4,7,8-HxCDD	ND		5.0	pg/g		09/25/14 12:30	09/30/14 23:36		1
1,2,3,6,7,8-HxCDD	ND		5.0	pg/g		09/25/14 12:30	09/30/14 23:36		1
1,2,3,7,8,9-HxCDD	ND		5.0	pg/g		09/25/14 12:30	09/30/14 23:36		1
1,2,3,4,7,8-HxCDF	ND		5.0	pg/g		09/25/14 12:30	09/30/14 23:36		1
1,2,3,6,7,8-HxCDF	ND		5.0	pg/g		09/25/14 12:30	09/30/14 23:36		1
1,2,3,7,8,9-HxCDF	ND		5.0	pg/g		09/25/14 12:30	09/30/14 23:36		1
2,3,4,6,7,8-HxCDF	ND		5.0	pg/g		09/25/14 12:30	09/30/14 23:36		1
1,2,3,4,6,7,8-HpCDD	ND		5.0	pg/g		09/25/14 12:30	09/30/14 23:36		1
1,2,3,4,6,7,8-HpCDF	ND		5.0	pg/g		09/25/14 12:30	09/30/14 23:36		1
1,2,3,4,7,8,9-HpCDF	ND		5.0	pg/g		09/25/14 12:30	09/30/14 23:36		1
OCDD	ND		10	pg/g		09/25/14 12:30	09/30/14 23:36		1
OCDF	ND		10	pg/g		09/25/14 12:30	09/30/14 23:36		1
Total TCDD	ND		1.0	pg/g		09/25/14 12:30	09/30/14 23:36		1
Total TCDF	ND		1.0	pg/g		09/25/14 12:30	09/30/14 23:36		1
Total PeCDD	ND		5.0	pg/g		09/25/14 12:30	09/30/14 23:36		1
Total PeCDF	ND		5.0	pg/g		09/25/14 12:30	09/30/14 23:36		1
Total HxCDD	ND		5.0	pg/g		09/25/14 12:30	09/30/14 23:36		1
Total HxCDF	ND		5.0	pg/g		09/25/14 12:30	09/30/14 23:36		1
Total HpCDD	ND		5.0	pg/g		09/25/14 12:30	09/30/14 23:36		1
Total HpCDF	ND		5.0	pg/g		09/25/14 12:30	09/30/14 23:36		1

Isotope Dilution	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
13C-2,3,7,8-TCDD	82		25 - 164		09/30/14 23:36	1
13C-2,3,7,8-TCDF	77		24 - 169		09/30/14 23:36	1
13C-1,2,3,7,8-PeCDD	80		25 - 181		09/30/14 23:36	1
13C-1,2,3,7,8-PeCDF	84		24 - 185		09/30/14 23:36	1
13C-2,3,4,7,8-PeCDF	81		21 - 178		09/30/14 23:36	1
13C-1,2,3,4,7,8-HxCDD	81		32 - 141		09/30/14 23:36	1
13C-1,2,3,6,7,8-HxCDD	83		28 - 130		09/30/14 23:36	1
13C-1,2,3,4,7,8-HxCDF	78		26 - 152		09/30/14 23:36	1
13C-1,2,3,6,7,8-HxCDF	78		26 - 123		09/30/14 23:36	1
13C-1,2,3,7,8,9-HxCDF	79		29 - 147		09/30/14 23:36	1
13C-2,3,4,6,7,8-HxCDF	81		28 - 136		09/30/14 23:36	1
13C-1,2,3,4,6,7,8-HpCDD	88		23 - 140		09/30/14 23:36	1
13C-1,2,3,4,6,7,8-HpCDF	84		28 - 143		09/30/14 23:36	1
13C-1,2,3,4,7,8,9-HpCDF	90		26 - 138		09/30/14 23:36	1
13C-OCDD	97		17 - 157		09/30/14 23:36	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
37Cl-2,3,7,8-TCDD	99		35 - 197		09/30/14 23:36	1

TestAmerica Pleasanton

QC Sample Results

Client: City of San Leandro
Project/Site: WPCP San Leandro

TestAmerica Job ID: 720-60070-1

Method: 1613B - Dioxins and Furans (HRGC/HRMS) (Continued)

Lab Sample ID: LCS 320-53323/2-A

Matrix: Solid

Analysis Batch: 53798

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 53323

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.	Limits
2,3,7,8-TCDD	20.0	19.3		pg/g	97	67 - 158		
2,3,7,8-TCDF	20.0	16.5		pg/g	83	75 - 158		
1,2,3,7,8-PeCDD	100	100		pg/g	100	70 - 142		
1,2,3,7,8-PeCDF	100	84.0		pg/g	84	80 - 134		
2,3,4,7,8-PeCDF	100	86.8		pg/g	87	68 - 160		
1,2,3,4,7,8-HxCDD	100	90.5		pg/g	90	70 - 164		
1,2,3,6,7,8-HxCDD	100	89.5		pg/g	89	76 - 134		
1,2,3,7,8,9-HxCDD	100	92.3		pg/g	92	64 - 162		
1,2,3,4,7,8-HxCDF	100	87.2		pg/g	87	72 - 134		
1,2,3,6,7,8-HxCDF	100	89.3		pg/g	89	84 - 130		
1,2,3,7,8,9-HxCDF	100	89.8		pg/g	90	78 - 130		
2,3,4,6,7,8-HxCDF	100	91.6		pg/g	92	70 - 156		
1,2,3,4,6,7,8-HpCDD	100	98.6		pg/g	99	70 - 140		
1,2,3,4,6,7,8-HpCDF	100	88.5		pg/g	88	82 - 122		
1,2,3,4,7,8,9-HpCDF	100	89.8		pg/g	90	78 - 138		
OCDD	200	187		pg/g	93	78 - 144		
OCDF	200	193		pg/g	96	63 - 170		

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
13C-2,3,7,8-TCDD	71		20 - 175
13C-2,3,7,8-TCDF	67		22 - 152
13C-1,2,3,7,8-PeCDD	71		21 - 227
13C-1,2,3,7,8-PeCDF	74		21 - 192
13C-2,3,4,7,8-PeCDF	72		13 - 328
13C-1,2,3,4,7,8-HxCDD	71		21 - 193
13C-1,2,3,6,7,8-HxCDD	72		25 - 163
13C-1,2,3,4,7,8-HxCDF	68		19 - 202
13C-1,2,3,6,7,8-HxCDF	68		21 - 159
13C-1,2,3,7,8,9-HxCDF	70		17 - 205
13C-2,3,4,6,7,8-HxCDF	69		22 - 176
13C-1,2,3,4,6,7,8-HpCDD	79		26 - 166
13C-1,2,3,4,6,7,8-HpCDF	75		21 - 158
13C-1,2,3,4,7,8,9-HpCDF	82		20 - 186
13C-OCDD	88		13 - 199

Surrogate	LCS %Recovery	LCS Qualifier	Limits
37Cl4-2,3,7,8-TCDD	95		35 - 197

Lab Sample ID: LCSD 320-53323/3-A

Matrix: Solid

Analysis Batch: 53798

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 53323

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec.	RPD	Limit
2,3,7,8-TCDD	20.0	19.4		pg/g	97	67 - 158		0	50
2,3,7,8-TCDF	20.0	16.9		pg/g	85	75 - 158		2	50
1,2,3,7,8-PeCDD	100	102		pg/g	102	70 - 142		2	50
1,2,3,7,8-PeCDF	100	88.8		pg/g	89	80 - 134		6	50
2,3,4,7,8-PeCDF	100	89.2		pg/g	89	68 - 160		3	50

TestAmerica Pleasanton

QC Sample Results

Client: City of San Leandro
Project/Site: WPCP San Leandro

TestAmerica Job ID: 720-60070-1

Method: 1613B - Dioxins and Furans (HRGC/HRMS) (Continued)

Lab Sample ID: LCSD 320-53323/3-A

Matrix: Solid

Analysis Batch: 53798

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 53323

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
1,2,3,4,7,8-HxCDD	100	90.1		pg/g		90	70 - 164	0	50
1,2,3,6,7,8-HxCDD	100	92.2		pg/g		92	76 - 134	3	50
1,2,3,7,8,9-HxCDD	100	93.6		pg/g		94	64 - 162	1	50
1,2,3,4,7,8-HxCDF	100	88.9		pg/g		89	72 - 134	2	50
1,2,3,6,7,8-HxCDF	100	89.6		pg/g		90	84 - 130	0	50
1,2,3,7,8,9-HxCDF	100	92.0		pg/g		92	78 - 130	2	50
2,3,4,6,7,8-HxCDF	100	89.4		pg/g		89	70 - 156	2	50
1,2,3,4,6,7,8-HpCDD	100	101		pg/g		101	70 - 140	2	50
1,2,3,4,6,7,8-HpCDF	100	92.3		pg/g		92	82 - 122	4	50
1,2,3,4,7,8,9-HpCDF	100	94.1		pg/g		94	78 - 138	5	50
OCDD	200	188		pg/g		94	78 - 144	1	50
OCDF	200	191		pg/g		95	63 - 170	1	50

Isotope Dilution	LCSD	LCSD	Limits
	%Recovery	Qualifier	
13C-2,3,7,8-TCDD	84		20 - 175
13C-2,3,7,8-TCDF	81		22 - 152
13C-1,2,3,7,8-PeCDD	85		21 - 227
13C-1,2,3,7,8-PeCDF	88		21 - 192
13C-2,3,4,7,8-PeCDF	86		13 - 328
13C-1,2,3,4,7,8-HxCDD	82		21 - 193
13C-1,2,3,6,7,8-HxCDD	84		25 - 163
13C-1,2,3,4,7,8-HxCDF	78		19 - 202
13C-1,2,3,6,7,8-HxCDF	78		21 - 159
13C-1,2,3,7,8,9-HxCDF	81		17 - 205
13C-2,3,4,6,7,8-HxCDF	78		22 - 176
13C-1,2,3,4,6,7,8-HpCDD	90		26 - 166
13C-1,2,3,4,6,7,8-HpCDF	88		21 - 158
13C-1,2,3,4,7,8,9-HpCDF	96		20 - 186
13C-OCDD	103		13 - 199

Surrogate	LCSD	LCSD	Limits
	%Recovery	Qualifier	
37Cl-2,3,7,8-TCDD	98		35 - 197

Method: 20B - Sodium Adsorption Ratio

Lab Sample ID: MB 560-108149/1-A

Matrix: Solid

Analysis Batch: 108250

Client Sample ID: Method Blank

Prep Type: Soluble

Prep Batch: 108149

Analyte	MB Result	MB Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Sodium Adsorption Ratio	0.000				NONE		10/10/14 15:34	10/14/14 15:16	1

TestAmerica Pleasanton

QC Sample Results

Client: City of San Leandro
Project/Site: WPCP San Leandro

TestAmerica Job ID: 720-60070-1

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 720-168451/1-A

Matrix: Solid

Analysis Batch: 168578

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 168451

Analyte	MB	MB	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony		ND			0.50		mg/Kg		10/08/14 18:37	10/09/14 22:10	1
Arsenic		ND			1.0		mg/Kg		10/08/14 18:37	10/09/14 22:10	1
Barium		ND			0.50		mg/Kg		10/08/14 18:37	10/09/14 22:10	1
Beryllium		ND			0.10		mg/Kg		10/08/14 18:37	10/09/14 22:10	1
Cadmium		ND			0.13		mg/Kg		10/08/14 18:37	10/09/14 22:10	1
Chromium		ND			0.50		mg/Kg		10/08/14 18:37	10/09/14 22:10	1
Cobalt		ND			0.20		mg/Kg		10/08/14 18:37	10/09/14 22:10	1
Copper		ND			1.5		mg/Kg		10/08/14 18:37	10/09/14 22:10	1
Lead		ND			0.50		mg/Kg		10/08/14 18:37	10/09/14 22:10	1
Molybdenum		ND			0.50		mg/Kg		10/08/14 18:37	10/09/14 22:10	1
Nickel		ND			0.50		mg/Kg		10/08/14 18:37	10/09/14 22:10	1
Selenium		ND			1.0		mg/Kg		10/08/14 18:37	10/09/14 22:10	1
Silver		ND			0.25		mg/Kg		10/08/14 18:37	10/09/14 22:10	1
Thallium		ND			0.50		mg/Kg		10/08/14 18:37	10/09/14 22:10	1
Vanadium		ND			0.50		mg/Kg		10/08/14 18:37	10/09/14 22:10	1
Zinc		ND			1.5		mg/Kg		10/08/14 18:37	10/09/14 22:10	1
Sodium		7.28			5.0		mg/Kg		10/08/14 18:37	10/09/14 22:10	1
Calcium		ND			5.0		mg/Kg		10/08/14 18:37	10/09/14 22:10	1
Boron		ND			1.0		mg/Kg		10/08/14 18:37	10/09/14 22:10	1

Lab Sample ID: LCS 720-168451/2-A

Matrix: Solid

Analysis Batch: 168578

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 168451

Analyte	Spike	LCS	LCS	Result	Qualifier	Unit	D	%Rec	Limits	%Rec.
	Added									
Antimony		50.0		46.6		mg/Kg		93	80 - 120	
Arsenic		50.0		48.7		mg/Kg		97	80 - 120	
Barium		50.0		50.6		mg/Kg		101	80 - 120	
Beryllium		50.0		49.2		mg/Kg		98	80 - 120	
Cadmium		50.0		48.7		mg/Kg		97	80 - 120	
Chromium		50.0		50.2		mg/Kg		100	80 - 120	
Cobalt		50.0		50.3		mg/Kg		101	80 - 120	
Copper		50.0		49.5		mg/Kg		99	80 - 120	
Lead		50.0		50.2		mg/Kg		100	80 - 120	
Molybdenum		50.0		50.9		mg/Kg		102	80 - 120	
Nickel		50.0		49.7		mg/Kg		99	80 - 120	
Selenium		50.0		46.9		mg/Kg		94	80 - 120	
Silver		25.0		24.4		mg/Kg		98	80 - 120	
Thallium		50.0		50.2		mg/Kg		100	80 - 120	
Vanadium		50.0		50.0		mg/Kg		100	80 - 120	
Zinc		50.0		46.1		mg/Kg		92	80 - 120	
Sodium		500		534		mg/Kg		107	80 - 120	
Calcium		500		528		mg/Kg		106	80 - 120	
Boron		50.0		46.4		mg/Kg		93	80 - 120	

TestAmerica Pleasanton

QC Sample Results

Client: City of San Leandro
Project/Site: WPCP San Leandro

TestAmerica Job ID: 720-60070-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCSD 720-168451/3-A
Matrix: Solid
Analysis Batch: 168578

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 168451

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Antimony	50.0	46.1		mg/Kg	92	80 - 120	1	20	
Arsenic	50.0	48.1		mg/Kg	96	80 - 120	1	20	
Barium	50.0	49.8		mg/Kg	100	80 - 120	2	20	
Beryllium	50.0	48.9		mg/Kg	98	80 - 120	0	20	
Cadmium	50.0	47.7		mg/Kg	95	80 - 120	2	20	
Chromium	50.0	49.4		mg/Kg	99	80 - 120	2	20	
Cobalt	50.0	49.4		mg/Kg	99	80 - 120	2	20	
Copper	50.0	48.9		mg/Kg	98	80 - 120	1	20	
Lead	50.0	49.5		mg/Kg	99	80 - 120	1	20	
Molybdenum	50.0	50.5		mg/Kg	101	80 - 120	1	20	
Nickel	50.0	48.8		mg/Kg	98	80 - 120	2	20	
Selenium	50.0	46.6		mg/Kg	93	80 - 120	1	20	
Silver	25.0	23.8		mg/Kg	95	80 - 120	2	20	
Thallium	50.0	49.6		mg/Kg	99	80 - 120	1	20	
Vanadium	50.0	49.5		mg/Kg	99	80 - 120	1	20	
Zinc	50.0	45.1		mg/Kg	90	80 - 120	2	20	
Sodium	500	526		mg/Kg	105	80 - 120	2	20	
Calcium	500	523		mg/Kg	105	80 - 120	1	20	
Boron	50.0	45.7		mg/Kg	91	80 - 120	1	20	

Lab Sample ID: LCSSRM 720-168451/25-A
Matrix: Solid
Analysis Batch: 168578

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 168451

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	Limits
Antimony	74.6	46.5		mg/Kg	62	11 - 101	
Arsenic	45.5	44.3		mg/Kg	97	69 - 119	
Barium	579	581		mg/Kg	100	61 - 117	
Beryllium	155	148		mg/Kg	96	56 - 102	
Cadmium	201	188		mg/Kg	93	67 - 118	
Chromium	106	101		mg/Kg	95	67 - 121	
Cobalt	247	237		mg/Kg	96	64 - 133	
Copper	130	126		mg/Kg	97	68 - 126	
Lead	302	284		mg/Kg	94	62 - 113	
Molybdenum	165	157		mg/Kg	95	62 - 128	
Nickel	305	286		mg/Kg	94	65 - 117	
Selenium	133	129		mg/Kg	97	63 - 126	
Silver	33.5	31.7		mg/Kg	95	51 - 130	
Thallium	191	180		mg/Kg	94	64 - 124	
Vanadium	214	213		mg/Kg	99	67 - 123	
Zinc	388	359		mg/Kg	93	62 - 110	
Sodium	283	256		mg/Kg	91	69 - 127	
Calcium	3240	3030		mg/Kg	94	69 - 105	
Boron	133	115		mg/Kg	87	60 - 120	

TestAmerica Pleasanton

QC Sample Results

Client: City of San Leandro
Project/Site: WPCP San Leandro

TestAmerica Job ID: 720-60070-1

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 720-168522/1-A

Matrix: Solid

Analysis Batch: 168722

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 168522

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.010		mg/Kg		10/09/14 14:51	10/13/14 13:34	1

Lab Sample ID: LCS 720-168522/2-A

Matrix: Solid

Analysis Batch: 168722

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 168522

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.
				mg/Kg		Limits	
Mercury	0.833	0.892			107	80 - 120	

Lab Sample ID: LCSD 720-168522/3-A

Matrix: Solid

Analysis Batch: 168722

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 168522

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec.	RPD
				mg/Kg		Limits	RPD	Limit
Mercury	0.833	0.900			108	80 - 120	1	20

Method: 939-M - Organic Lead (GFAA)

Lab Sample ID: MB 440-208410/1-B

Matrix: Solid

Analysis Batch: 208805

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 208410

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
					ug/Kg				
Organo-Lead	ND		25				09/26/14 18:49	09/29/14 15:51	1

Lab Sample ID: LCS 440-208410/2-B

Matrix: Solid

Analysis Batch: 208805

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 208410

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.
				ug/Kg		Limits	
Organo-Lead	100	103			103	80 - 120	

Lab Sample ID: LCSD 440-208410/3-B

Matrix: Solid

Analysis Batch: 208805

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 208410

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec.	RPD
				ug/Kg		Limits	RPD	Limit
Organo-Lead	100	109			109	80 - 120	5	20

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 720-167911/1-A

Matrix: Solid

Analysis Batch: 167951

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
					mg/Kg				
Fluoride	ND		10					10/01/14 11:53	1

TestAmerica Pleasanton

QC Sample Results

Client: City of San Leandro
Project/Site: WPCP San Leandro

TestAmerica Job ID: 720-60070-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 720-167911/2-A

Matrix: Solid

Analysis Batch: 167951

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte		Spike	LCS	LCS	Unit	D	%Rec	%Rec.
		Added	Result	Qualifier				
Fluoride		100	103		mg/Kg	103	90 - 110	

Lab Sample ID: MB 720-167911/1-A

Matrix: Solid

Analysis Batch: 167952

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Nitrate as N	ND		2.3		mg/Kg			10/01/14 11:53	1

Lab Sample ID: LCS 720-167911/2-A

Matrix: Solid

Analysis Batch: 167952

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec.
	Added	Result	Qualifier				
Nitrate as N	22.6	22.9		mg/Kg	102	90 - 110	

Method: 351.2 - Nitrogen, Total Kjeldahl

Lab Sample ID: MB 440-208602/2-A

Matrix: Solid

Analysis Batch: 208652

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 208602

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Total Kjeldahl Nitrogen	ND		50		mg/Kg		09/29/14 08:33	09/29/14 10:39	1

Lab Sample ID: LCS 440-208602/1-A

Matrix: Solid

Analysis Batch: 208652

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 208602

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec.
	Added	Result	Qualifier				
Total Kjeldahl Nitrogen	499	512		mg/Kg	103	90 - 110	

Lab Sample ID: 720-60070-1 MS

Matrix: Solid

Analysis Batch: 208652

Client Sample ID: SLUDGE BED #12 WEST

Prep Type: Total/NA

Prep Batch: 208602

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	Limits
	Result	Qualifier	Added	Result	Qualifier				
Total Kjeldahl Nitrogen	37000		7110	47700	4	mg/Kg	144	50 - 150	

Lab Sample ID: 720-60070-1 MSD

Matrix: Solid

Analysis Batch: 208652

Client Sample ID: SLUDGE BED #12 WEST

Prep Type: Total/NA

Prep Batch: 208602

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	Limits	RPD
	Result	Qualifier	Added	Result	Qualifier					
Total Kjeldahl Nitrogen	37000		7360	50100	4	mg/Kg	172	50 - 150	5	35

TestAmerica Pleasanton

QC Sample Results

Client: City of San Leandro
Project/Site: WPCP San Leandro

TestAmerica Job ID: 720-60070-1

Method: 420.1 - Phenolics, Total Recoverable

Lab Sample ID: MB 240-149043/1-A

Matrix: Solid

Analysis Batch: 149049

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 149043

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenols, Total	ND		0.98		mg/Kg		09/28/14 06:59	09/28/14 11:50	1

Lab Sample ID: LCS 240-149043/2-A

Matrix: Solid

Analysis Batch: 149049

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 149043

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Phenols, Total	13.9	14.9		mg/Kg		107	54 - 142

Method: 7196A - Chromium, Hexavalent

Lab Sample ID: MB 440-208088/1-A

Matrix: Solid

Analysis Batch: 208425

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 208088

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	ND		1.0		mg/Kg		09/25/14 16:36	09/26/14 21:52	1

Lab Sample ID: LCS 440-208088/2-A

Matrix: Solid

Analysis Batch: 208425

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 208088

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Cr (VI)	16.0	15.8		mg/Kg		99	80 - 120

Method: SM 2510B - Conductivity, Specific Conductance

Lab Sample ID: 720-60070-1 DU

Matrix: Solid

Analysis Batch: 256112

Client Sample ID: SLUDGE BED #12 WEST

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Specific Conductance	31000		30700		umhos/cm		0.3	20

Method: SM 4500 CN E - Cyanide, Total

Lab Sample ID: MB 440-208980/1-A

Matrix: Solid

Analysis Batch: 209039

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 208980

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.50		mg/Kg		09/30/14 14:57	09/30/14 18:23	1

TestAmerica Pleasanton

QC Sample Results

Client: City of San Leandro
Project/Site: WPCP San Leandro

TestAmerica Job ID: 720-60070-1

Method: SM 4500 CN E - Cyanide, Total (Continued)

Lab Sample ID: LCS 440-208980/2-A

Matrix: Solid

Analysis Batch: 209039

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 208980

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec.	Limits
Cyanide, Total	4.98	4.82		mg/Kg	—	97	90 - 110

Method: SM 4500 NH3 G - Ammonia

Lab Sample ID: MB 440-210661/1-A

Matrix: Solid

Analysis Batch: 210719

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	ND		2.0		mg/Kg	—		10/08/14 19:16	1

Lab Sample ID: LCS 440-210661/2-A

Matrix: Solid

Analysis Batch: 210719

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec.	Limits
Ammonia (as N)	50.1	51.6		mg/Kg	—	103	90 - 110

Lab Sample ID: LCSD 440-210661/3-A

Matrix: Solid

Analysis Batch: 210719

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec.	Limits	RPD	RPD Limit
Ammonia (as N)	49.8	51.3		mg/Kg	—	103	90 - 110	1	15

Method: SM 4500 P E - Phosphorus

Lab Sample ID: MB 500-258410/1-A

Matrix: Solid

Analysis Batch: 258703

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 258410

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phosphorus as P	ND		5.0		mg/Kg	—	10/09/14 10:30	10/10/14 15:00	1

Lab Sample ID: LCS 500-258410/2-A

Matrix: Solid

Analysis Batch: 258703

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 258410

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec.	Limits
Phosphorus as P	25.0	24.3		mg/Kg	—	97	80 - 120

TestAmerica Pleasanton

QC Association Summary

Client: City of San Leandro
Project/Site: WPCP San Leandro

TestAmerica Job ID: 720-60070-1

GC/MS VOA

Analysis Batch: 167762

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-60070-1	SLUDGE BED #12 WEST	Total/NA	Solid	8260B	167771
720-60070-1 MS	SLUDGE BED #12 WEST	Total/NA	Solid	8260B	167771
720-60070-1 MSD	SLUDGE BED #12 WEST	Total/NA	Solid	8260B	167771
LCS 720-167762/5	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 720-167762/6	Lab Control Sample Dup	Total/NA	Solid	8260B	
MB 720-167762/4	Method Blank	Total/NA	Solid	8260B	

Prep Batch: 167771

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-60070-1	SLUDGE BED #12 WEST	Total/NA	Solid	5030B	9
720-60070-1 MS	SLUDGE BED #12 WEST	Total/NA	Solid	5030B	10
720-60070-1 MSD	SLUDGE BED #12 WEST	Total/NA	Solid	5030B	

GC/MS Semi VOA

Prep Batch: 167648

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-60070-1	SLUDGE BED #12 WEST	Total/NA	Solid	3546	13
LCS 720-167648/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 720-167648/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	14
MB 720-167648/1-A	Method Blank	Total/NA	Solid	3546	

Analysis Batch: 167680

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 720-167648/2-A	Lab Control Sample	Total/NA	Solid	8270C	167648
LCSD 720-167648/3-A	Lab Control Sample Dup	Total/NA	Solid	8270C	167648
MB 720-167648/1-A	Method Blank	Total/NA	Solid	8270C	167648

Analysis Batch: 168691

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-60070-1	SLUDGE BED #12 WEST	Total/NA	Solid	8270C	167648

GC Semi VOA

Prep Batch: 119598

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-60070-1	SLUDGE BED #12 WEST	Total/NA	Solid	8151A	
LCS 180-119598/2-A	Lab Control Sample	Total/NA	Solid	8151A	
LCSD 180-119598/3-A	Lab Control Sample Dup	Total/NA	Solid	8151A	
MB 180-119598/1-A	Method Blank	Total/NA	Solid	8151A	

Prep Batch: 120084

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-60070-1	SLUDGE BED #12 WEST	Total/NA	Solid	3541	
LCS 180-120084/2-A	Lab Control Sample	Total/NA	Solid	3541	
MB 180-120084/1-A	Method Blank	Total/NA	Solid	3541	

Analysis Batch: 120217

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-60070-1	SLUDGE BED #12 WEST	Total/NA	Solid	8141A	120084

TestAmerica Pleasanton

QC Association Summary

Client: City of San Leandro
Project/Site: WPCP San Leandro

TestAmerica Job ID: 720-60070-1

GC Semi VOA (Continued)

Analysis Batch: 120217 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 180-120084/2-A	Lab Control Sample	Total/NA	Solid	8141A	120084
MB 180-120084/1-A	Method Blank	Total/NA	Solid	8141A	120084

Analysis Batch: 120276

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-60070-1	SLUDGE BED #12 WEST	Total/NA	Solid	8151A	119598
LCS 180-119598/2-A	Lab Control Sample	Total/NA	Solid	8151A	119598
LCSD 180-119598/3-A	Lab Control Sample Dup	Total/NA	Solid	8151A	119598
MB 180-119598/1-A	Method Blank	Total/NA	Solid	8151A	119598

Prep Batch: 167879

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-60070-1	SLUDGE BED #12 WEST	Total/NA	Solid	3546	
LCS 720-167879/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 720-167879/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	
MB 720-167879/1-A	Method Blank	Total/NA	Solid	3546	

Analysis Batch: 167941

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 720-167879/2-A	Lab Control Sample	Total/NA	Solid	8082	167879
LCSD 720-167879/3-A	Lab Control Sample Dup	Total/NA	Solid	8082	167879
MB 720-167879/1-A	Method Blank	Total/NA	Solid	8082	167879

Analysis Batch: 167942

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-60070-1	SLUDGE BED #12 WEST	Total/NA	Solid	8082	167879

Prep Batch: 244923

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-60070-1	SLUDGE BED #12 WEST	Total/NA	Solid	3546	
LCS 280-244923/2-A	Lab Control Sample	Total/NA	Solid	3546	
MB 280-244923/1-A	Method Blank	Total/NA	Solid	3546	

Analysis Batch: 245758

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-60070-1	SLUDGE BED #12 WEST	Total/NA	Solid	8081A	244923
LCS 280-244923/2-A	Lab Control Sample	Total/NA	Solid	8081A	244923
MB 280-244923/1-A	Method Blank	Total/NA	Solid	8081A	244923

Specialty Organics

Prep Batch: 53323

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-60070-1	SLUDGE BED #12 WEST	Total/NA	Solid	HRMS-Sox	
720-60070-1 - RA	SLUDGE BED #12 WEST	Total/NA	Solid	HRMS-Sox	
LCS 320-53323/2-A	Lab Control Sample	Total/NA	Solid	HRMS-Sox	
LCSD 320-53323/3-A	Lab Control Sample Dup	Total/NA	Solid	HRMS-Sox	
MB 320-53323/1-A	Method Blank	Total/NA	Solid	HRMS-Sox	

TestAmerica Pleasanton

QC Association Summary

Client: City of San Leandro
Project/Site: WPCP San Leandro

TestAmerica Job ID: 720-60070-1

Specialty Organics (Continued)

Analysis Batch: 53798

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-60070-1	SLUDGE BED #12 WEST	Total/NA	Solid	1613B	53323
LCS 320-53323/2-A	Lab Control Sample	Total/NA	Solid	1613B	53323
LCSD 320-53323/3-A	Lab Control Sample Dup	Total/NA	Solid	1613B	53323
MB 320-53323/1-A	Method Blank	Total/NA	Solid	1613B	53323

Analysis Batch: 53841

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-60070-1 - RA	SLUDGE BED #12 WEST	Total/NA	Solid	1613B	53323

Metals

Prep Batch: 108149

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-60070-1	SLUDGE BED #12 WEST	Soluble	Solid	20B	
MB 560-108149/1-A	Method Blank	Soluble	Solid	20B	

Analysis Batch: 108250

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-60070-1	SLUDGE BED #12 WEST	Soluble	Solid	20B	108149
MB 560-108149/1-A	Method Blank	Soluble	Solid	20B	108149

Prep Batch: 168451

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-60070-1	SLUDGE BED #12 WEST	Total/NA	Solid	3050B	
LCS 720-168451/2-A	Lab Control Sample	Total/NA	Solid	3050B	
LCSD 720-168451/3-A	Lab Control Sample Dup	Total/NA	Solid	3050B	
LCSSRM 720-168451/25-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 720-168451/1-A	Method Blank	Total/NA	Solid	3050B	

Prep Batch: 168522

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-60070-1	SLUDGE BED #12 WEST	Total/NA	Solid	7471A	
LCS 720-168522/2-A	Lab Control Sample	Total/NA	Solid	7471A	
LCSD 720-168522/3-A	Lab Control Sample Dup	Total/NA	Solid	7471A	
MB 720-168522/1-A	Method Blank	Total/NA	Solid	7471A	

Analysis Batch: 168578

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-60070-1	SLUDGE BED #12 WEST	Total/NA	Solid	6010B	168451
LCS 720-168451/2-A	Lab Control Sample	Total/NA	Solid	6010B	168451
LCSD 720-168451/3-A	Lab Control Sample Dup	Total/NA	Solid	6010B	168451
LCSSRM 720-168451/25-A	Lab Control Sample	Total/NA	Solid	6010B	168451
MB 720-168451/1-A	Method Blank	Total/NA	Solid	6010B	168451

Analysis Batch: 168603

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-60070-1	SLUDGE BED #12 WEST	Total/NA	Solid	6010B	168451

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QC Association Summary

Client: City of San Leandro
Project/Site: WPCP San Leandro

TestAmerica Job ID: 720-60070-1

Metals (Continued)

Analysis Batch: 168722

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 720-168522/2-A	Lab Control Sample	Total/NA	Solid	7471A	168522
LCSD 720-168522/3-A	Lab Control Sample Dup	Total/NA	Solid	7471A	168522
MB 720-168522/1-A	Method Blank	Total/NA	Solid	7471A	168522

Analysis Batch: 168734

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-60070-1	SLUDGE BED #12 WEST	Total/NA	Solid	7471A	168522

Prep Batch: 208410

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-60070-1	SLUDGE BED #12 WEST	Total/NA	Solid	939M	208410
LCS 440-208410/2-B	Lab Control Sample	Total/NA	Solid	939M	208410
LCSD 440-208410/3-B	Lab Control Sample Dup	Total/NA	Solid	939M	208410
MB 440-208410/1-B	Method Blank	Total/NA	Solid	939M	208410

Prep Batch: 208506

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-60070-1	SLUDGE BED #12 WEST	Total/NA	Solid	939M	208410
LCS 440-208410/2-B	Lab Control Sample	Total/NA	Solid	939M	208410
LCSD 440-208410/3-B	Lab Control Sample Dup	Total/NA	Solid	939M	208410
MB 440-208410/1-B	Method Blank	Total/NA	Solid	939M	208410

Analysis Batch: 208805

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-60070-1	SLUDGE BED #12 WEST	Total/NA	Solid	939-M	208506
LCS 440-208410/2-B	Lab Control Sample	Total/NA	Solid	939-M	208506
LCSD 440-208410/3-B	Lab Control Sample Dup	Total/NA	Solid	939-M	208506
MB 440-208410/1-B	Method Blank	Total/NA	Solid	939-M	208506

General Chemistry

Prep Batch: 149043

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-60070-1	SLUDGE BED #12 WEST	Total/NA	Solid	Distill/Phenol	208506
LCS 240-149043/2-A	Lab Control Sample	Total/NA	Solid	Distill/Phenol	208506
MB 240-149043/1-A	Method Blank	Total/NA	Solid	Distill/Phenol	208506

Analysis Batch: 149049

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-60070-1	SLUDGE BED #12 WEST	Total/NA	Solid	420.1	149043
LCS 240-149043/2-A	Lab Control Sample	Total/NA	Solid	420.1	149043
MB 240-149043/1-A	Method Blank	Total/NA	Solid	420.1	149043

Analysis Batch: 167587

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-60070-1	SLUDGE BED #12 WEST	Total/NA	Solid	Moisture	

Leach Batch: 167911

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-60070-1	SLUDGE BED #12 WEST	Soluble	Solid	DI Leach	

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TestAmerica Pleasanton

QC Association Summary

Client: City of San Leandro
Project/Site: WPCP San Leandro

TestAmerica Job ID: 720-60070-1

General Chemistry (Continued)

Leach Batch: 167911 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 720-167911/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
MB 720-167911/1-A	Method Blank	Soluble	Solid	DI Leach	

Analysis Batch: 167951

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-60070-1	SLUDGE BED #12 WEST	Soluble	Solid	300.0	167911
LCS 720-167911/2-A	Lab Control Sample	Soluble	Solid	300.0	167911
MB 720-167911/1-A	Method Blank	Soluble	Solid	300.0	167911

Analysis Batch: 167952

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-60070-1	SLUDGE BED #12 WEST	Soluble	Solid	300.0	167911
LCS 720-167911/2-A	Lab Control Sample	Soluble	Solid	300.0	167911
MB 720-167911/1-A	Method Blank	Soluble	Solid	300.0	167911

Leach Batch: 208087

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-60070-1	SLUDGE BED #12 WEST	Soluble	Solid	DI Leach	

Prep Batch: 208088

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-60070-1	SLUDGE BED #12 WEST	Total/NA	Solid	3060A	
LCS 440-208088/2-A	Lab Control Sample	Total/NA	Solid	3060A	
MB 440-208088/1-A	Method Blank	Total/NA	Solid	3060A	

Analysis Batch: 208103

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-60070-1	SLUDGE BED #12 WEST	Soluble	Solid	9045C	208087

Analysis Batch: 208425

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-60070-1	SLUDGE BED #12 WEST	Total/NA	Solid	7196A	208088
LCS 440-208088/2-A	Lab Control Sample	Total/NA	Solid	7196A	208088
MB 440-208088/1-A	Method Blank	Total/NA	Solid	7196A	208088

Prep Batch: 208602

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-60070-1	SLUDGE BED #12 WEST	Total/NA	Solid	351.2	
720-60070-1 MS	SLUDGE BED #12 WEST	Total/NA	Solid	351.2	
720-60070-1 MSD	SLUDGE BED #12 WEST	Total/NA	Solid	351.2	
LCS 440-208602/1-A	Lab Control Sample	Total/NA	Solid	351.2	
MB 440-208602/2-A	Method Blank	Total/NA	Solid	351.2	

Analysis Batch: 208652

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-60070-1	SLUDGE BED #12 WEST	Total/NA	Solid	351.2	208602
720-60070-1 MS	SLUDGE BED #12 WEST	Total/NA	Solid	351.2	208602
720-60070-1 MSD	SLUDGE BED #12 WEST	Total/NA	Solid	351.2	208602
LCS 440-208602/1-A	Lab Control Sample	Total/NA	Solid	351.2	208602
MB 440-208602/2-A	Method Blank	Total/NA	Solid	351.2	208602

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TestAmerica Pleasanton

QC Association Summary

Client: City of San Leandro
Project/Site: WPCP San Leandro

TestAmerica Job ID: 720-60070-1

General Chemistry (Continued)

Prep Batch: 208980

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-60070-1	SLUDGE BED #12 WEST	Total/NA	Solid	Distill/CN	
LCS 440-208980/2-A	Lab Control Sample	Total/NA	Solid	Distill/CN	
MB 440-208980/1-A	Method Blank	Total/NA	Solid	Distill/CN	

Analysis Batch: 209039

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-60070-1	SLUDGE BED #12 WEST	Total/NA	Solid	SM 4500 CN E	208980
LCS 440-208980/2-A	Lab Control Sample	Total/NA	Solid	SM 4500 CN E	208980
MB 440-208980/1-A	Method Blank	Total/NA	Solid	SM 4500 CN E	208980

Leach Batch: 210661

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-60070-1	SLUDGE BED #12 WEST	Soluble	Solid	DI Leach	
LCS 440-210661/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 440-210661/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
MB 440-210661/1-A	Method Blank	Soluble	Solid	DI Leach	

Analysis Batch: 210719

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-60070-1	SLUDGE BED #12 WEST	Soluble	Solid	SM 4500 NH3 G	210661
LCS 440-210661/2-A	Lab Control Sample	Soluble	Solid	SM 4500 NH3 G	210661
LCSD 440-210661/3-A	Lab Control Sample Dup	Soluble	Solid	SM 4500 NH3 G	210661
MB 440-210661/1-A	Method Blank	Soluble	Solid	SM 4500 NH3 G	210661

Analysis Batch: 210928

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-60070-1	SLUDGE BED #12 WEST	Total/NA	Solid	Nitrogen,Org	

Leach Batch: 256085

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-60070-1	SLUDGE BED #12 WEST	Soluble	Solid	DI Leach	
720-60070-1 DU	SLUDGE BED #12 WEST	Soluble	Solid	DI Leach	

Analysis Batch: 256112

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-60070-1	SLUDGE BED #12 WEST	Soluble	Solid	SM 2510B	256085
720-60070-1 DU	SLUDGE BED #12 WEST	Soluble	Solid	SM 2510B	256085

Prep Batch: 258410

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-60070-1	SLUDGE BED #12 WEST	Total/NA	Solid	SM 4500 P B	
LCS 500-258410/2-A	Lab Control Sample	Total/NA	Solid	SM 4500 P B	
MB 500-258410/1-A	Method Blank	Total/NA	Solid	SM 4500 P B	

Analysis Batch: 258703

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-60070-1	SLUDGE BED #12 WEST	Total/NA	Solid	SM 4500 P E	258410
LCS 500-258410/2-A	Lab Control Sample	Total/NA	Solid	SM 4500 P E	258410
MB 500-258410/1-A	Method Blank	Total/NA	Solid	SM 4500 P E	258410

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TestAmerica Pleasanton

Lab Chronicle

Client: City of San Leandro
Project/Site: WPCP San Leandro

TestAmerica Job ID: 720-60070-1

Client Sample ID: SLUDGE BED #12 WEST

Lab Sample ID: 720-60070-1

Date Collected: 09/22/14 10:34
Date Received: 09/22/14 15:45

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			167771	09/27/14 13:39	YYB	TAL PLS
Total/NA	Analysis	8260B		1	167762	09/27/14 14:40	PDR	TAL PLS
Total/NA	Prep	3546			167648	09/25/14 17:10		TAL PLS
Total/NA	Analysis	8270C		20	168691	10/13/14 15:13	MQL	TAL PLS
Total/NA	Prep	3546			244923	09/25/14 17:50	NRC	TAL DEN
Total/NA	Analysis	8081A		100	245758	10/02/14 00:56	DAW	TAL DEN
Total/NA	Prep	3546			167879	09/30/14 11:53	CJG	TAL PLS
Total/NA	Analysis	8082		2	167942	10/01/14 10:12	DCH	TAL PLS
Total/NA	Prep	3541			120084	10/02/14 09:20	JPM	TAL PIT
Total/NA	Analysis	8141A		10	120217	10/03/14 14:28	JMO	TAL PIT
Total/NA	Prep	8151A			119598	09/29/14 09:24	JPM	TAL PIT
Total/NA	Analysis	8151A		20	120276	10/03/14 13:21	JMO	TAL PIT
Total/NA	Prep	HRMS-Sox			53323	09/25/14 12:30	GDB	TAL SAC
Total/NA	Analysis	1613B		1	53798	10/01/14 05:51	SMA	TAL SAC
Total/NA	Prep	HRMS-Sox	RA		53323	09/25/14 12:30	GDB	TAL SAC
Total/NA	Analysis	1613B	RA	1	53841	10/01/14 16:47	ALM	TAL SAC
Soluble	Prep	20B			108149	10/10/14 15:34	MIG	TAL CC
Soluble	Analysis	20B		1	108250	10/14/14 15:16	EDR	TAL CC
Total/NA	Prep	3050B			168451	10/08/14 18:37	CTD	TAL PLS
Total/NA	Analysis	6010B		1	168603	10/10/14 10:36	EFH	TAL PLS
Total/NA	Prep	3050B			168451	10/08/14 18:37	CTD	TAL PLS
Total/NA	Analysis	6010B		4	168578	10/10/14 00:26	CAM	TAL PLS
Total/NA	Prep	7471A			168522	10/09/14 14:51	ECT	TAL PLS
Total/NA	Analysis	7471A		100	168734	10/13/14 18:17	SLK	TAL PLS
Total/NA	Prep	939M			208410	09/26/14 18:49	CH	TAL IRV
Total/NA	Prep	939M			208506	09/28/14 00:12	CH	TAL IRV
Total/NA	Analysis	939-M		1	208805	09/29/14 17:01	DB	TAL IRV
Soluble	Leach	DI Leach			167911	10/01/14 08:54	EYT	TAL PLS
Soluble	Analysis	300.0		1	167951	10/01/14 15:01	MJK	TAL PLS
Soluble	Leach	DI Leach			167911	10/01/14 08:54	EYT	TAL PLS
Soluble	Analysis	300.0		100	167952	10/01/14 17:19	MJK	TAL PLS
Total/NA	Prep	351.2			208602	09/29/14 08:33	DC	TAL IRV
Total/NA	Analysis	351.2		10	208652	09/29/14 11:10	DC	TAL IRV
Total/NA	Prep	Distill/Phenol			149043	09/28/14 06:59	JAK	TAL CAN
Total/NA	Analysis	420.1		1	149049	09/28/14 11:58	JAK	TAL CAN
Total/NA	Prep	3060A			208088	09/25/14 16:36	RW	TAL IRV
Total/NA	Analysis	7196A		5	208425	09/26/14 21:54	RW	TAL IRV
Soluble	Leach	DI Leach			208087	09/25/14 16:33	EN	TAL IRV
Soluble	Analysis	9045C		1	208103	09/25/14 17:30	EN	TAL IRV
Total/NA	Analysis	Moisture		1	167587	09/24/14 20:50	EYT	TAL PLS
Total/NA	Analysis	Nitrogen,Org		1	210928	10/09/14 15:31	TN	TAL IRV
Soluble	Leach	DI Leach			256085	09/24/14 17:47	SJS	TAL CHI

TestAmerica Pleasanton

Lab Chronicle

Client: City of San Leandro
Project/Site: WPCP San Leandro

TestAmerica Job ID: 720-60070-1

Client Sample ID: SLUDGE BED #12 WEST

Lab Sample ID: 720-60070-1

Date Collected: 09/22/14 10:34

Matrix: Solid

Date Received: 09/22/14 15:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Analysis	SM 2510B		1	256112	(Start) 09/24/14 23:00	SJS	TAL CHI
						(End) 09/24/14 23:15		
Total/NA	Prep	Distill/CN			208980	09/30/14 14:57	BT	TAL IRV
Total/NA	Analysis	SM 4500 CN E		1	209039	09/30/14 18:23	BT	TAL IRV
Soluble	Leach	DI Leach			210661	10/08/14 16:50	BS	TAL IRV
Soluble	Analysis	SM 4500 NH3 G		200	210719	10/08/14 20:12	BS	TAL IRV
Total/NA	Prep	SM 4500 P B			258410	10/09/14 10:30	JLE	TAL CHI
Total/NA	Analysis	SM 4500 P E		25	258703	(Start) 10/10/14 15:09	JLE	TAL CHI
						(End) 10/10/14 15:09		

Laboratory References:

= SOIL CONTROL LAB, 42 HANGER WAY, Watsonville, CA 95076

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

TAL CC = TestAmerica Corpus Christi, 1733 N. Padre Island Drive, Corpus Christi, TX 78408, TEL (361)289-2673

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

TAL DEN = TestAmerica Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

TAL SAC = TestAmerica Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

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TestAmerica Pleasanton

Certification Summary

Client: City of San Leandro
Project/Site: WPCP San Leandro

TestAmerica Job ID: 720-60070-1

Laboratory: TestAmerica Pleasanton

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	State Program	9	2496	01-31-16

Laboratory: TestAmerica Canton

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	NELAP	9	01144CA	06-30-14 *
California	State Program	9	2927	04-30-15
Connecticut	State Program	1	PH-0590	12-31-14
Florida	NELAP	4	E87225	06-30-15
Georgia	State Program	4	N/A	06-30-15
Illinois	NELAP	5	200004	07-31-15
Kansas	NELAP	7	E-10336	01-31-15
Kentucky (UST)	State Program	4	58	06-30-15
L-A-B	DoD ELAP		L2315	07-18-16
Minnesota	NELAP	5	039-999-348	12-31-14
Nevada	State Program	9	OH-000482008A	07-31-15
New Jersey	NELAP	2	OH001	06-30-15
New York	NELAP	2	10975	03-31-15
Ohio VAP	State Program	5	CL0024	10-31-15
Pennsylvania	NELAP	3	68-00340	08-31-15
Texas	NELAP	6		08-31-15
USDA	Federal		P330-13-00319	11-26-16
Virginia	NELAP	3	460175	09-14-15
Washington	State Program	10	C971	01-12-15
West Virginia DEP	State Program	3	210	12-31-14
Wisconsin	State Program	5	999518190	08-31-15

Laboratory: TestAmerica Chicago

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alabama	State Program	4	40461	04-30-15
California	State Program	9	2903	04-30-15
Georgia	State Program	4	N/A	04-30-15
Georgia	State Program	4	939	04-30-15
Hawaii	State Program	9	N/A	04-30-15
Illinois	NELAP	5	100201	04-30-15
Indiana	State Program	5	C-IL-02	04-30-15
Iowa	State Program	7	82	05-01-16
Kansas	NELAP	7	E-10161	10-31-14 *
Kentucky (UST)	State Program	4	66	04-30-15
Kentucky (WW)	State Program	4	KY90023	12-31-14 *
Massachusetts	State Program	1	M-IL035	06-30-15
Mississippi	State Program	4	N/A	04-30-15
New York	NELAP	2	IL00035	03-31-15
North Carolina (WW/SW)	State Program	4	291	12-31-14 *
North Dakota	State Program	8	R-194	04-30-15
Oklahoma	State Program	6	8908	08-31-15
South Carolina	State Program	4	77001	04-30-15
USDA	Federal		P330-12-00038	02-06-15

* Certification renewal pending - certification considered valid.

TestAmerica Pleasanton

Certification Summary

Client: City of San Leandro
 Project/Site: WPCP San Leandro

TestAmerica Job ID: 720-60070-1

Laboratory: TestAmerica Chicago (Continued)

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Wisconsin	State Program	5	999580010	08-31-15 *
Wyoming	State Program	8	8TMS-Q	04-30-15

Laboratory: TestAmerica Corpus Christi

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Kansas	NELAP	7	E-10362	10-31-14
Oklahoma	State Program	6	9968	08-31-15
Texas	NELAP	6	T104704210	03-31-15

Laboratory: TestAmerica Denver

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
A2LA	DoD ELAP		2907.01	10-31-15 *
A2LA	ISO/IEC 17025		2907.01	10-31-15
Alabama	State Program	4	40730	09-30-12 *
Alaska (UST)	State Program	10	UST-30	04-05-15
Arizona	State Program	9	AZ0713	12-19-14
Arkansas DEQ	State Program	6	88-0687	06-01-15
California	State Program	9	2513	08-31-16
Florida	NELAP	4	E87667	06-30-15
Georgia	State Program	4	N/A	01-09-15
Illinois	NELAP	5	200017	04-30-15
Iowa	State Program	7	370	12-01-14 *
Kansas	NELAP	7	E-10166	04-30-15
Louisiana	NELAP	6	02096	06-30-15
Maine	State Program	1	CO0002	03-03-15
Minnesota	NELAP	5	8-999-405	12-31-14
Nevada	State Program	9	CO0026	07-31-15
New Hampshire	NELAP	1	205310	04-28-15
New Jersey	NELAP	2	CO004	06-30-15
New Mexico	State Program	6	CO00026	01-09-15
New York	NELAP	2	11964	03-31-15
North Carolina (WW/SW)	State Program	4	358	12-31-14
North Dakota	State Program	8	R-034	06-30-14 *
Oklahoma	State Program	6	8614	08-31-15
Oregon	NELAP	10	4025	01-09-15
Pennsylvania	NELAP	3	68-00664	07-30-15
South Carolina	State Program	4	7200201	06-30-15
Texas	NELAP	6	T104704183-13-8	10-01-15
USDA	Federal		P330-13-00202	07-02-16
Utah	NELAP	8	CO00026	07-31-15
Virginia	NELAP	3	460232	06-14-15
Washington	State Program	10	C583	08-03-15
West Virginia DEP	State Program	3	354	11-30-14
Wisconsin	State Program	5	999615430	08-31-15
Wyoming (UST)	A2LA	8	2907.01	10-31-15

Laboratory: TestAmerica Irvine

* Certification renewal pending - certification considered valid.

TestAmerica Pleasanton

Certification Summary

Client: City of San Leandro
Project/Site: WPCP San Leandro

TestAmerica Job ID: 720-60070-1

Laboratory: TestAmerica Irvine (Continued)

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska	State Program	10	CA01531	06-30-15
Arizona	State Program	9	AZ0671	10-13-15
California	LA Cty Sanitation Districts	9	10256	01-31-15
California	State Program	9	2706	06-30-16
Guam	State Program	9	Cert. No. 12.002r	01-23-15
Hawaii	State Program	9	N/A	01-29-15 *
Nevada	State Program	9	CA015312007A	07-31-15
New Mexico	State Program	6	N/A	01-29-15
Northern Mariana Islands	State Program	9	MP0002	01-29-15
Oregon	NELAP	10	4005	01-29-15
USDA	Federal		P330-09-00080	06-06-15
USEPA UCMR	Federal	1	CA01531	01-31-15

Laboratory: TestAmerica Pittsburgh

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Arkansas DEQ	State Program	6	88-0690	06-27-15
California	State Program	9	2891	03-31-15
Connecticut	State Program	1	PH-0688	09-30-14 *
Florida	NELAP	4	E871008	06-30-15
Illinois	NELAP	5	002602	06-30-15
Kansas	NELAP	7	E-10350	01-31-15
Louisiana	NELAP	6	04041	06-30-15
New Hampshire	NELAP	1	203011	04-04-15
New Jersey	NELAP	2	PA005	06-30-15
New York	NELAP	2	11182	03-31-15
North Carolina (WW/SW)	State Program	4	434	12-31-14
Pennsylvania	NELAP	3	02-00416	04-30-15
South Carolina	State Program	4	89014	04-30-15
Texas	NELAP	6	T104704528	03-31-15
US Fish & Wildlife	Federal		LE94312A-1	11-30-14
USDA	Federal		P330-10-00139	05-23-16
Utah	NELAP	8	STLP	05-31-15
Virginia	NELAP	3	460189	09-14-15
West Virginia DEP	State Program	3	142	01-31-15

Laboratory: TestAmerica Sacramento

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
A2LA	DoD ELAP		2928-01	01-31-16
Alaska (UST)	State Program	10	UST-055	12-18-14
Arizona	State Program	9	AZ0708	08-11-15
Arkansas DEQ	State Program	6	88-0691	06-17-15
California	State Program	9	2897	01-31-15
Colorado	State Program	8	N/A	08-31-15
Connecticut	State Program	1	PH-0691	06-30-15
Florida	NELAP	4	E87570	06-30-15
Hawaii	State Program	9	N/A	01-29-15
Illinois	NELAP	5	200060	03-17-15

* Certification renewal pending - certification considered valid.

TestAmerica Pleasanton

Certification Summary

Client: City of San Leandro
Project/Site: WPCP San Leandro

TestAmerica Job ID: 720-60070-1

Laboratory: TestAmerica Sacramento (Continued)

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date	
Kansas	NELAP	7	E-10375	10-31-14	1
Louisiana	NELAP	6	30612	06-30-15	2
Michigan	State Program	5	9947	01-31-15	3
Nebraska	State Program	7	NE-OS-22-13	01-29-15	4
Nevada	State Program	9	CA44	07-31-15	5
New Jersey	NELAP	2	CA005	06-30-15	6
New York	NELAP	2	11666	04-01-15	7
Oregon	NELAP	10	CA200005	01-29-15	8
Oregon	NELAP Secondary AB	10	E87570	06-30-15	9
Pennsylvania	NELAP	3	9947	03-31-15	10
Texas	NELAP	6	T104704399-08-TX	05-31-15	11
US Fish & Wildlife	Federal		LE148388-0	12-31-14	12
USDA	Federal		P330-11-00436	12-30-14	13
USEPA UCMR	Federal	1	CA00044	11-06-16	14
Utah	NELAP	8	QUAN1	02-28-15	15
Washington	State Program	10	C581	05-05-15	16
West Virginia (DW)	State Program	3	9930C	12-31-14	
Wyoming	State Program	8	8TMS-Q	01-29-15	

TestAmerica Pleasanton

Method Summary

Client: City of San Leandro
 Project/Site: WPCP San Leandro

TestAmerica Job ID: 720-60070-1

Method	Method Description	Protocol	Laboratory	
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL PLS	1
8270C	Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)	SW846	TAL PLS	2
8081A	Organochlorine Pesticides (GC)	SW846	TAL DEN	3
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL PLS	4
8141A	Organophosphorous Pesticides (GC)	SW846	TAL PIT	5
8151A	Herbicides (GC)	SW846	TAL PIT	6
1613B	Dioxins and Furans (HRGC/HRMS)	40CFR136A	TAL SAC	7
20B	Sodium Adsorption Ratio	USDA	TAL CC	8
6010B	Metals (ICP)	SW846	TAL PLS	9
7471A	Mercury (CVAA)	SW846	TAL PLS	10
939-M	Organic Lead (GFAA)	CADHS	TAL IRV	11
300.0	Anions, Ion Chromatography	MCAWW	TAL PLS	12
351.2	Nitrogen, Total Kjeldahl	MCAWW	TAL IRV	13
420.1	Phenolics, Total Recoverable	MCAWW	TAL CAN	14
7196A	Chromium, Hexavalent	SW846	TAL IRV	15
9045C	pH	SW846	TAL IRV	16
Moisture	Percent Moisture	EPA	TAL PLS	
Nitrogen,Org	Nitrogen, Organic	EPA	TAL IRV	
SM 2510B	Conductivity, Specific Conductance	SM	TAL CHI	
SM 4500 CN E	Cyanide, Total	SM	TAL IRV	
SM 4500 NH3 G	Ammonia	SM	TAL IRV	
SM 4500 P E	Phosphorus	SM	TAL CHI	
CO2 Evolution - Composte Package	General Sub Contract Method	NONE		
PLM - Asbestos	Asbestos in Soils	NONE		

Protocol References:

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.

CADHS = California Department of Health Services

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

NONE = NONE

SM = "Standard Methods For The Examination Of Water And Wastewater",

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

USDA = "USDA Agriculture Handbook 60, section 20B".

Laboratory References:

= SOIL CONTROL LAB, 42 HANGER WAY, Watsonville, CA 95076

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

TAL CC = TestAmerica Corpus Christi, 1733 N. Padre Island Drive, Corpus Christi, TX 78408, TEL (361)289-2673

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

TAL DEN = TestAmerica Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

TAL SAC = TestAmerica Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

TestAmerica Pleasanton

Sample Summary

Client: City of San Leandro
Project/Site: WPCP San Leandro

TestAmerica Job ID: 720-60070-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	
720-60070-1	SLUDGE BED #12 WEST	Solid	09/22/14 10:34	09/22/14 15:45	1
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TestAmerica Pleasanton

SOIL CONTROL LAB

42 HANGAR WAY
WATSONVILLE
CALIFORNIA
95076
USA

TestAmerica San Francisco
1220 Quarry Lane
Pleasanton, CA 94566
Attn: Micah Smith

Date Received: 24 Sep. 14
Sample Identification: Sludge Bed #12 West (720-60070-1)
Sample ID #: 4090780 - 1/1

TEL: 831-724-5422
FAX: 831-724-3188
www.compostlab.com

Account #: 4090780-1/1-6212

Group: Sep.14 D #43

Reporting Date: October 9, 2014

STABILITY

Carbon Dioxide Evolution Rate	Respiration Rate	Biological Available Carbon
Test Conditions: Pre-incubated: Incubation: Moisture adjustment: pH Porosity Nutrients TMECC Method	(as received) 3 day-20 deg.C 36 deg.C saturated Not adjusted Not provided Not provided 05.08-B	(carbon made the limiting factor) 3 day-36 deg. C 36 deg.C saturated 6.5 to 7.5 #20 quartz sand NPK+trace 05.08-F
RESULTS: mg CO ₂ -C/g OM/day	3.9	3.9
mg CO ₂ -C/g OC/day	7.3	7.3
mg CO ₂ -C/g TS/day	2.4	2.4
INTERPRETATION:	Very Stable Stable Moderately Unstable Unstable Very Unstable	< 2 2 to 4 4 to 8 8 to 20 > 20

RESPIRATION RATE

Optimizing moisture with pre-incubation to simulate maximum biological activity in a source pile.

BIOLOGICAL AVAILABLE CARBON

Optimizing all conditions (except carbon) makes rate of degradation limited by the available carbon in the compost. Purpose is to simulate condition of end use in an agriculture environment where nutrients, porosity, pH adj. and moisture are provided from the grower or receiving soil when optimizing conditions for plant growth.

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Analyst: Assaf Sadeh



Report for:

Mr. Micah Smith
TestAmerica-Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566

Regarding: Project: 720-60070-1; WPCP San Leandro
EML ID: 1269031

Approved by:

Dates of Analysis:
Asbestos PLM: 09-29-2014

Approved Signatory
Noah Lazarte

Service SOPs: Asbestos PLM (EPA Methods 600/R-93/116 & 600/M4-82-020, SOP EM-AS-S-1267)

All samples were received in acceptable condition unless noted in the Report Comments portion in the body of the report. The results relate only to the items tested. The results include an inherent uncertainty of measurement associated with estimating percentages by polarized light microscopy. Measurement uncertainty data for sample results with >1% asbestos concentration can be provided when requested.

EMLab P&K ("the Company") shall have no liability to the client or the client's customer with respect to decisions or recommendations made, actions taken or courses of conduct implemented by either the client or the client's customer as a result of or based upon the Test Results. In no event shall the Company be liable to the client with respect to the Test Results except for the Company's own willful misconduct or gross negligence nor shall the Company be liable for incidental or consequential damages or lost profits or revenues to the fullest extent such liability may be disclaimed by law, even if the Company has been advised of the possibility of such damages, lost profits or lost revenues. In no event shall the Company's liability with respect to the Test Results exceed the amount paid to the Company by the client therefor.

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EMLab P&K

4955 Yarrow Street , Arvada, CO 80002
(800) 651-4802 Fax (623) 780-7695 www.emlab.com

Client: TestAmerica-Pleasanton
C/O: Mr. Micah Smith
Re: 720-60070-1; WPCP San Leandro

Date of Sampling: 09-22-2014
Date of Receipt: 09-24-2014
Date of Report: 09-29-2014

ASBESTOS PLM REPORT: EPA-600/M4-82-020 & EPA METHOD 600/R-93-116

Total Samples Submitted: 1

Total Samples Analysed: 1

Total Samples with Layer Asbestos Content > 1%: 0

Location: SLUDGE BED #12 WEST (720-60070-1)

Lab ID-Version‡: 5776035-1

Sample Layers	Asbestos Content
Brown Soil	ND
Composite Non-Asbestos Content:	5% Cellulose 5% Synthetic Fibers
Sample Composite Homogeneity:	Moderate

The test report shall not be reproduced except in full, without written approval of the laboratory. The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government. EMLab P&K reserves the right to dispose of all samples after a period of thirty (30) days, according to all state and federal guidelines, unless otherwise specified.

Inhomogeneous samples are separated into homogeneous subsamples and analyzed individually. ND means no fibers were detected. When detected, the minimum detection and reporting limit is less than 1% unless point counting is performed. Floor tile samples may contain large amounts of interference material and it is recommended that the sample be analyzed by gravimetric point count analysis to lower the detection limit and to aid in asbestos identification.

‡ A "Version" indicated by "-x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

EMLab P&K, LLC

EMLab ID: 1269031, Page 2 of 2

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

TestAmerica Pleasanton

1220 Quarry Lane
Pleasanton, CA 94566
925-484-1919

720-60070

Chain of Custody Record

TestAmerica
TEST AMERICA IS A TRADE MARK OF ENVIRONMENTAL SCIENCES INC.

155416

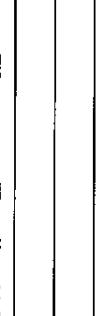
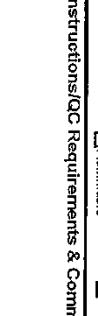
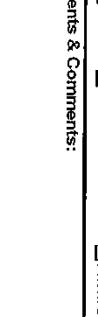
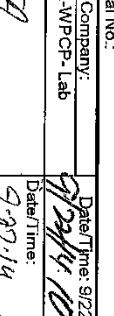
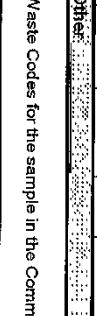
TestAmerica laboratories, Inc.

10/16/2014

10/16/2014

10/16/2014

DENALI_000714

Client Contact		Project Manager: Shahed Abbasi		Site Contact: Shahed Abbasi		Date: 9/22/2014	COC No:
San Leandro Water Pollution Control Plant Address: 3000 Davis Street City/State/Zip: San Leandro, CA 94577 Phone: (510) 577-5035		Tel/Fax: 510-577-5035 / 925-658-3023 Analysis Turnaround Time: <input type="checkbox"/> CALENDAR DAYS <input checked="" type="checkbox"/> WORKING DAYS TAT if different from below _____ Standard 2 weeks 1 week 2 days 1 day		Lab Contact: Shahed Abbasi		Carrier:	1 of 1 COCs
Project Name: WPCP San Leandro Site: San Leandro Sludge Drying Bed # 12 West PO# 53802						Sampler: Shahed Abbasi	For Lab Use Only: Walk-In Client: _____ Lab Sampling: _____
Sample Identification		Sample Date	Sample Time	Sample Type (<input checked="" type="checkbox"/> Concentration, <input type="checkbox"/> General)	Matrix	# of Cont.	Sample Specific Notes:
Sludge BED # 12 West		9/22/2014	10/24/	C	Soil	(4) 16 oz. G	Filtered Sample (Y/N) Perform MS / MSD (Y/N) % Moisture Asbestos PLM Phenolic 420 1 Total Cyanide SM4500 CNE CAM 17 6010/7470 Organic lead GFAA 839M Hexavalent Cr 7196A B, Ca, Na -8010B TKN; NH3-N, ORGANIC NITROGEN FLUORIDE,NITRATE & T PHOSPORUS EPA 8270C ; EPA 8269B , EPA 8062 ; EPA 600 EPA 8161; 8141; 8081A (KEPONE MIREX) EPA 1613B - 7 DIOXIN & 10 BENZOFURAN pH; SPECIFIC CONDUCTANCE Sodium Absorption Ratio CO2 Evolution Trace Metal As, Cd, Cr, Cu,Pb,Hg, Ni,Sr,Mg,Zn,Mo
Comments:		Note: Please send preliminary results to foresee need for STC.					
Preservation Used: <input type="checkbox"/> HCl <input type="checkbox"/> H2SO4 <input type="checkbox"/> HNO3 <input type="checkbox"/> Methanol <input type="checkbox"/> Other							
Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)					
<input type="checkbox"/> Non-hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown		<input type="checkbox"/> Return to Client <input checked="" type="checkbox"/> Disposal by Lab <input type="checkbox"/> Archive for _____ Months					
<i>1. 2°C</i>							
Custody Seals intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.: 		Colder Temp. (°C) Obsd.: 		Cont'd.: _____ Therm ID No.: _____	
Relinquished by: 		Company: SL-WPCP-Lab		Received by: 		Company: 	
Relinquished by: 		Company: 		Received by: 		Company: 	
Relinquished by: 		Company: 		Received in Laboratory by: 		Company: 	

Special Instructions/QC Requirements & Comments:

Smith, Micah

720-60070-2

From: SAbbasi@sanleandro.org
Sent: Wednesday, October 15, 2014 11:27 AM
To: Smith, Micah
Cc: ABERUMEN@sanleandro.org; DWilson@sanleandro.org
Subject: RE: TestAmerica invoice and report files from 720-60070-1 WPCP San Leandro

Thank you Micah for the report.

Please do the STLC for Cr and Cu and also look into the detection limit for Toxaphene (6400 ug/Kg vs 5000 ug/Kg for TILC limit)

Kind regards,

Shahed Abbasi
510-577-6035

From: Smith, Micah [mailto:micah.smith@testamericalnc.com]
Sent: Tuesday, October 14, 2014 5:31 PM
To: Abbasi, Shahed
Subject: TestAmerica invoice and report files from 720-60070-1 WPCP San Leandro

Hello,

Attached please find the invoice and report files for job 720-60070-1; WPCP San Leandro

Please feel free to contact me if you have any questions.

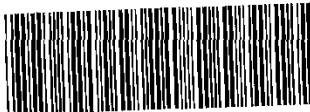
Thank you

Please let us know if we met your expectations by rating the service you received from TestAmerica on this project by visiting our website at: [Project Feedback](#)

MICAH SMITH
Project Manager II

TestAmerica Pleasanton
THE LEADER IN ENVIRONMENTAL TESTING

Tel: 925 484 1919
westamerica@tacoma.com



720-60070 Chain of Custody

Reference [160494]
Attachments: 2

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Login Sample Receipt Checklist

Client: City of San Leandro

Job Number: 720-60070-1

Login Number: 60070

List Source: TestAmerica Pleasanton

List Number: 1

Creator: Bullock, Tracy

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	False	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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Login Sample Receipt Checklist

Client: City of San Leandro

Job Number: 720-60070-1

Login Number: 60070**List Source: TestAmerica Chicago****List Number: 4****List Creation: 09/24/14 12:58 PM****Creator: Kelsey, Shawn M**

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

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Login Sample Receipt Checklist

Client: City of San Leandro

Job Number: 720-60070-1

Login Number: 60070**List Source: TestAmerica Corpus Christi****List Number: 8****List Creation: 09/25/14 05:37 PM****Creator: Landa, Eduardo D**

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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Login Sample Receipt Checklist

Client: City of San Leandro

Job Number: 720-60070-1

Login Number: 60070**List Source: TestAmerica Denver****List Number: 5****List Creation: 09/24/14 12:46 PM****Creator: Conquest, Tyler W**

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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Login Sample Receipt Checklist

Client: City of San Leandro

Job Number: 720-60070-1

Login Number: 60070**List Source: TestAmerica Irvine****List Number: 7****List Creation: 09/24/14 01:40 PM****Creator: Avila Sonora, Leticia**

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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Login Sample Receipt Checklist

Client: City of San Leandro

Job Number: 720-60070-1

Login Number: 60070**List Source: TestAmerica Pittsburgh****List Number: 2****List Creation: 09/24/14 12:32 PM****Creator: Kovitch, Christina M**

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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Login Sample Receipt Checklist

Client: City of San Leandro

Job Number: 720-60070-1

Login Number: 60070**List Source: TestAmerica Sacramento****List Number: 6****List Creation: 09/24/14 12:16 PM****Creator: Nelson, Kym D**

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	